

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

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(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Visit our website - *Click HERE*

Acopian

Since 1957

Power Supply Catalog 2010



We make Power Supplies in
Every voltage from 0 volts to 30kV

AC-DC and DC-DC

3 Day Shipping Guarantees

Linear, Switching, Unregulated

5 Year Warranties

Order Factory Direct

VISA

Made in the U.S.A.

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Celebrating 50 Years of Excellence



Sarkis Acopian

Having come to the United States as an immigrant in the mid 1940s, Sarkis Acopian, founder of Acopian Technical Company, attended Lafayette College in Easton, PA. During his time at Lafayette, he was called to serve in the U.S. Army. After being honorably discharged and returning to Lafayette, he graduated in 1951, earning a bachelor's degree in mechanical engineering. After graduation, Mr. Acopian was employed by Weller Electric Corp., where he designed a power sander and a soldering gun that became two of its main products. With just a small loan to start his own company and achieve his share of the American dream, he began by designing and manufacturing the first ever solar radio, a milestone of 1957 technology. The Acopian Solar Radio was promoted as 'Revolutionary – No Batteries or Outside Electrical Plug-ins – Uses light for its source of energy.'

When Mr. Acopian needed some power supplies and couldn't obtain them quickly, he made them himself, and – realizing that other engineers were experiencing the same problem – began to advertise them for sale. Soon, Acopian was building and shipping power supplies very quickly. This evolved into our 3 Day shipping policy – "up to 5 pieces of any power supply is guaranteed to ship within 3 Days after receipt of order." As the power supply line grew, larger and more complicated power supplies were introduced, but the same philosophy was followed for these larger supplies – "up to 2 pieces of these would ship within 9 days after receipt of order." We still pride ourselves on this remarkable ability. To this day, none of our competitors can consistently match our shipping promise dates.

Mr. Acopian, an industrialist, environmentalist and humanitarian, has displayed extraordinary generosity to international, national and local non-profit agencies throughout his lifetime. His interest in ornithology resulted in establishing the Birds of Armenia Project, whose primary goal was to stimulate environmental awareness and establish a conservation ethic among the citizenry of Armenia.

Mr. Acopian's passion for higher education and the sciences is seen in his many philanthropic endeavors, which have included the Acopian Engineering Center at Lafayette College, the Acopian Center for Conservation Learning at Hawk Mountain Sanctuary and the Acopian Center for Ornithology at Muhlenberg College, as well as his endowing of the environmental education programs at the American University of Armenia and the Florida Institute of Technology. His great sense of gratitude to his adopted country played a major part in his being the largest individual donor to the World War II Memorial in Washington, DC.

In celebrating its 50th anniversary, Acopian continues to develop new lines of power supplies for the constantly changing needs of industry. But what will never change is our commitment to serving our valued customers with quality products, our 3-Day shipping guarantee and unsurpassed customer service.



Acopian Promises to Ship Within Three Days



Lawrence Berkeley National Laboratory

"Whenever I need a power supply for any project, I always check Acopian first. Your customer service is first rate, and I really like the fast, dependable shipping. The reliability of your products is an additional bonus – **they seem to last forever**."

Gudrun Kleist, Engineering Associate

. . . and we keep that promise. For more than 40 years, Acopian has been shipping AC to DC power modules within three days after receipt of an order. During this period, the Acopian line has expanded from the original Plug-in modules to a broad range of different types of power supplies.

Our unique 3-day shipping guarantee has prompted many questions. Below are some of those most often asked:

I've seen other power supply manufacturers advertise "same-day shipment." Isn't that better than 3-day shipment?

A typical vendor's "same-day shipment" advertisement can only be fulfilled if the power supplies you need are in stock. Otherwise, a four to six week delay is not unusual before inventory is replenished and your order is shipped.

Acopian's 3-day shipment promise applies to ALL 3 Day models (larger units ship within 9 Days) and is not dependent on the quantity in stock. We build each unit after the order for that unit is received. If an order is needed faster, often times we can ship in less than 3 days.

What does Acopian's 3-day shipping promise mean?

It means that power modules listed in this catalog are shipped within 3 days after we receive your order. High Voltage, Redundant, Rack Mounting, Systems and certain Switching power supplies are shipped within 9 days.

Do options affect shipping time?

The 230 volt input option and moisture/fungus-proofing option require two additional days. All other options do not affect shipping time.

Has Acopian ever failed to meet this promise?

Never.

Is the 3-day promise affected by quantity? Suppose we need 50 or 100 pieces?

The 3-day promise applies to orders for five or less modules. (Two or less for 9-day items). If requested, Acopian will ship five pieces of a larger order in 3 days and, with consideration of your requirement, schedule the balance. (Since each shipment is processed and priced as a separate order, for lowest prices request shipment in one lot.)

What if I need four or five different models? Does the 3-day promise still apply?

Yes. Guaranteed 3-day shipment applies to one model or to a combination of models.

Do I have to ask for 3-day shipment of my order?

3-day shipment is automatic. In fact, you must tell us if you want the shipment delayed.

How long after you ship will I have the power supplies?

Transportation time varies with the carrier used. Unless otherwise requested, Acopian ships small orders by UPS Ground.

You say Acopian has never failed to meet the 3-day promise. How do you do it?

Our facilities have been designed and equipped to meet our 3-day shipment promise. When your order is received, your power supplies are built specifically for you and shipped within three days. We do not ship from stock. (For this reason, we are unable to accept returns for credit.)

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Customized Solutions to meet your needs

Acopian has been customizing power supplies and building Power Systems for over 48 years. 4-5

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Shipped within 9 DAYS



POWER SYSTEMS

Try the convenient **Online System Builder** at www.acopian.com

Any combination of power supplies can be mounted in an assembly that includes the operating features you require 6-13

Shipped within 9 DAYS



REDUNDANT POWER PACKAGES, AC-DC

(includes models with Power Factor Correction and Universal Input)

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PLUGGABLE REDUNDANT SYSTEMS
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MODULAR REDUNDANT SYSTEMS
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- Using two switching supplies 26-27, 14-17

SWITCHING REGULATED, AC-DC

MINI ENCAPSULATED - PC Board Mounting - with Screw Terminals

Shipped within 6 DAYS



5-48 volts, 0.65-10 amps, 30 & 50 watt

- Single output 38-39
- Socket 38
- Mounting Kits (for wall mounting or DIN rail mounting) 77

NARROW PROFILE

Shipped within 3 DAYS



3.3-125 volts, 1.3-25 amps, to 288 watts

- Single output (to 120 watts) 42-43
- Single output (to 288 watts) ***'UL508 Listed' option***
- NEW!! with Power Factor Correction and Universal Input . . . 44-45
- Mounting Kits (for wall mounting or DIN rail mounting) 91

Shipped within 9 DAYS



NEW!!

LOW PROFILE (with Power Factor Correction and Universal Input)

3.3-50 volts, 15-70 amps, to 720 watts

- Single output 50-53
- Wide Adjust output 50-53
- Mounting Kits (for wall mounting or DIN rail mounting) 91

Shipped within 9 DAYS



GOLD BOX

3.3-48 volts, 8-150 amps, 325-1200 watts

- Single output 54-55
- Wide Adjust output 54-55
- Mounting Kits (for wall mounting or DIN rail mounting) 91

DC-DC CONVERTERS, REGULATED

Shipped within 3 DAYS



5-48 Vdc in, 5-28 volts out, 0.2-2.5 amps, 6-15 watts

MINI ENCAPSULATED - PC Board Mounting
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18-350 Vdc in, 3.3-125 Vdc out, 1.3-25 amps, to 288 watts

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- Single output 78-80
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HIGH VOLTAGE REGULATED, AC-DC & DC-DC

To 30 kV

Shipped within...

...6 DAYS ***...9 DAYS***



0-30 kV, 1-60 mA, 30-60 watts

MODULAR
- Single output 70-73
- Mounting Kits (for wall mounting or DIN rail mounting) 91

RACK MOUNTING
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LINEAR REGULATED, AC-DC

PAGE

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MINI ENCAPSULATED - With Screw Terminals
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Shipped within 3 DAYS



1-75 volts
0.02-2.5 amps
0.25-15 watts

NARROW PROFILE
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Dual output 62
Wide Adjust output 58-59
Mounting Kits (for wall mounting or DIN rail mounting) 91

Shipped within 3 DAYS



0-150 volts
0.05-3.5 amps
2-38 watts

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Shipped within 3 DAYS



0-200 volts
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Shipped within 3 DAYS



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Programmable (with a control voltage or potentiometer) . . 60-61

Shipped within 9 DAYS



0-150 volts
2.3-60 amps
30-784 watts

UNREGULATED, AC-DC

GOLD BOX
Single output 56-57
Wide Adjust output 56-57
Mounting Kits (for wall mounting or DIN rail mounting) 91

Shipped within 3 DAYS

0-1000 volts
0.02-23 amps
0.8-560 watts



0-950 volts
0.02-5 amps
7-140 watts



PLUG-IN
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NEMA 4X Enclosed

We can mount many of our power supplies in NEMA enclosures. 35

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Circuit Enclosure Boxes

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ORDER DIRECT FROM ACOPIAN . . . . . **Inside Back Cover**
WARRANTY . . . . . **Inside Back Cover**
TAGGING, TEST DATA, FUNGUS PROOFING . . . . **Inside Back Cover**
3-DAY AND 9-DAY SHIPPING GUARANTEE 1

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Need a non-standard power supply?

We'll customize a power supply to meet your requirements.

Acopian has been customizing power supplies to meet our customers' unique requirements for over 48 years. The cost is reasonable, even in small quantities. We ship them quickly – often within the same 3 working days as our standard models. And they carry the same five year warranty. Tell us your requirements, and we'll quote what we can do for you.



Power supply with IEC input connector and circular output connector

64V output

42V output



Baseplate-mounting power supply



High voltage power supply mounted in NEMA enclosure.

24 Vac input

17.2V output

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Acopian can help you by making modifications such as these:

These Output modifications are easily done:

Non-standard output voltages/ranges
Capability to compensate large load line drops
Programmable with 0-5 or 0-10V control voltage
Programmable current control
Capability to provide a surge current at turn-on
Wide adjust zero-up outputs
Modified current limiting characteristics:
- Adjustable current limiting
- Latching current limiting
- Constant current limiting
- Pulsing limiting

Adjustable overvoltage protection
Redundancy: N+1 or diode OR-ing
Inhibit and enable control
Multiple sets of fused output terminals
Electrostatically shielded transformers
Low noise/low ripple outputs
Paralleling: passive or active
Switchable polarity outputs
Relay controlled outputs

These Input modifications are easily done:

Special input ranges
Selectable input voltage ranges
DC inputs to 350V
Logic-controlled on/off
400 Hz input
90-265 Vac input (Japan)
Inhibit/enable (TTL or other level)
AC inrush limiting
Soft start
Optically Isolated Control inputs

These Operating Features are easily done:

Alarm contacts
Monitor outputs (may be scaled)
Input switch
Output voltage selector switch
LED indicators
10-turn output controls
Test jacks (pin or banana)
Temperature protection (thermostat)
Analog or digital meters
Voltage and current monitors
Outputs on binding posts
Remote system AC control using SS relays
EMI and RFI filtering/shielding
Safety/interlock switches

These Mechanical modifications are easily done:

Input/output connector(s) instead of screw terminals
Customer specified connectors
Flying lead connections
Output cables
Line cord (hard-wired or IEC with detachable cord)
Mounting flanges added
Clips for DIN rail mounting added
Changed case dimension
Special case to fit available space
Mounting in NEMA enclosure
Fan cooling
Handles/rubber feet added
Custom painted
Rack heights from 1¾" to 12¼"
Pluggable modules

Or we can build a Power System that will meet your requirements.
See next page.

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Power Supply Systems

Any way YOU want!



The next 7 pages detail for you:

- The unlimited variety Acopian can make!
- How easy it is to order Power Systems Online!
- Acopian's 9 Day Shipping Promise for Systems!
- Why Acopian warranties its Systems for 5 years!

Since 1964, Acopian has been building Power Supply Systems for customers including Lockheed Martin, Raytheon, Northrop Grumman, BAE, Westinghouse, Walt Disney, U.S. Army, U.S. Navy, Emerson, Tyco, Siemens, Chevron, University of Chicago, MIT, Honeywell, Goodrich, Harris Corp, GM and GE. Shouldn't you be choosing Acopian too?

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PHOTO COURTESY OF THE ICECUBE PROJECT

*"**At Project IceCube, it's absolutely critical to have a good power supply.** The ice must be as pure and clear as possible. If the power to the ice top sensor system were to fail, we would risk the tank water freezing without being controlled, resulting in bubbles and impurities, and very much reducing the quality of ice and quality of information that we can see with our detectors. **We chose Acopian power supplies to power our pumping and degassing systems because of their reputation for reliability.** The people at Acopian met all of our highly demanding specifications and, despite very little time until our window to ship to the Pole, they met our schedule. **We were 100% satisfied."***

Jim Baccus
Cable System Manager
Project IceCube
(the international high-energy neutrino observatory being built and installed in the ice below South Pole Station)

The world's most demanding environments demand Acopian power systems.

Design your own Acopian power system online with the System Builder at www.acopian.com. Simply enter your requirements, and you'll receive a quotation for fully wired multiple-output power systems, without the need for you to prepare mechanical layouts or search through a power supply catalog. Each system will be completely wired, tested and shipped within 9 days after receipt of the order. Choose Acopian – the power supplies of choice for the world's leading engineers.



ALL ACOPIAN POWER SUPPLIES MADE IN U.S.A.

Acopian

Acopian Technical Company

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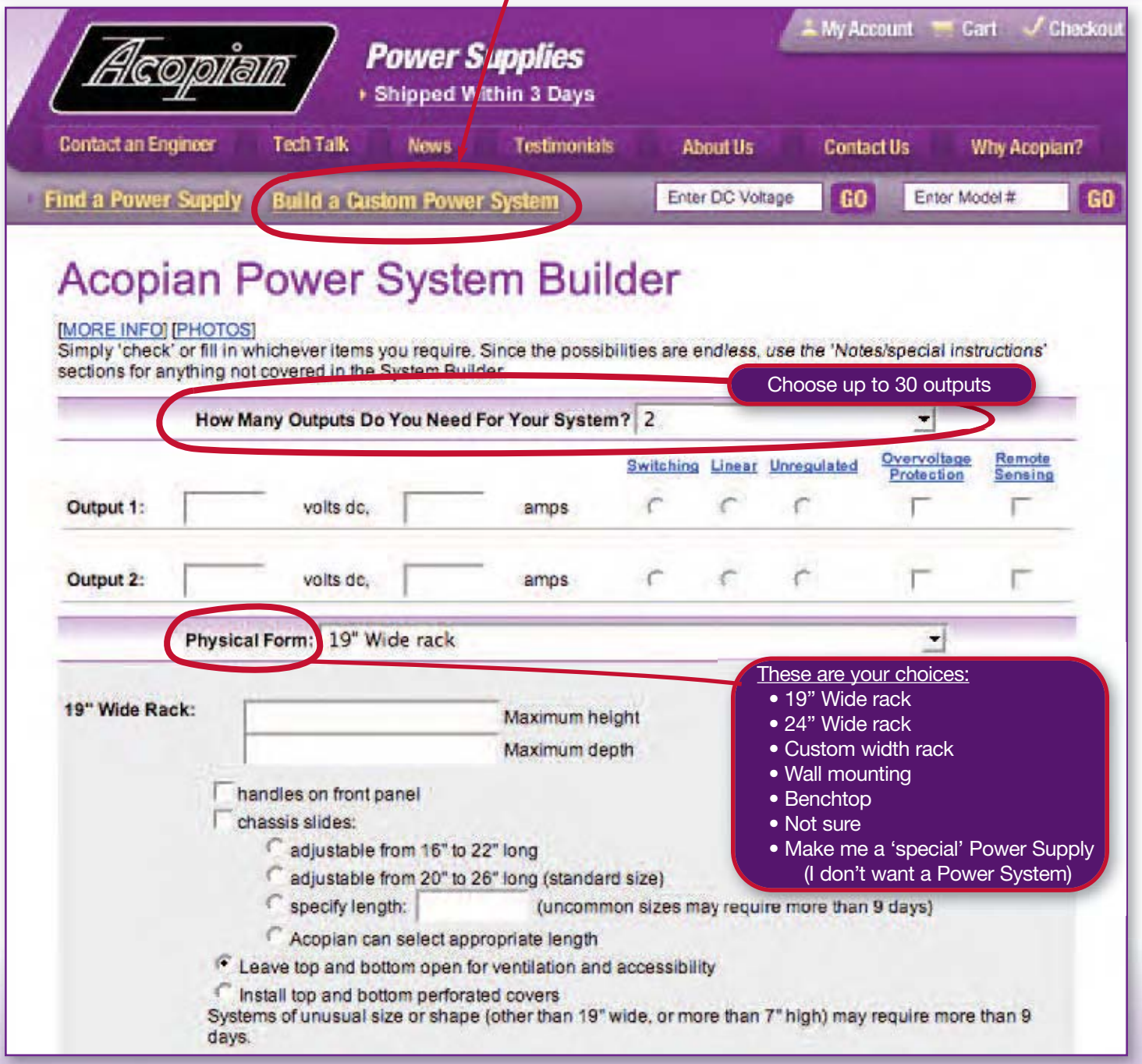
Building your own Power Supply System is so simple anyone can do it ...with

Acopian's Online System Builder!

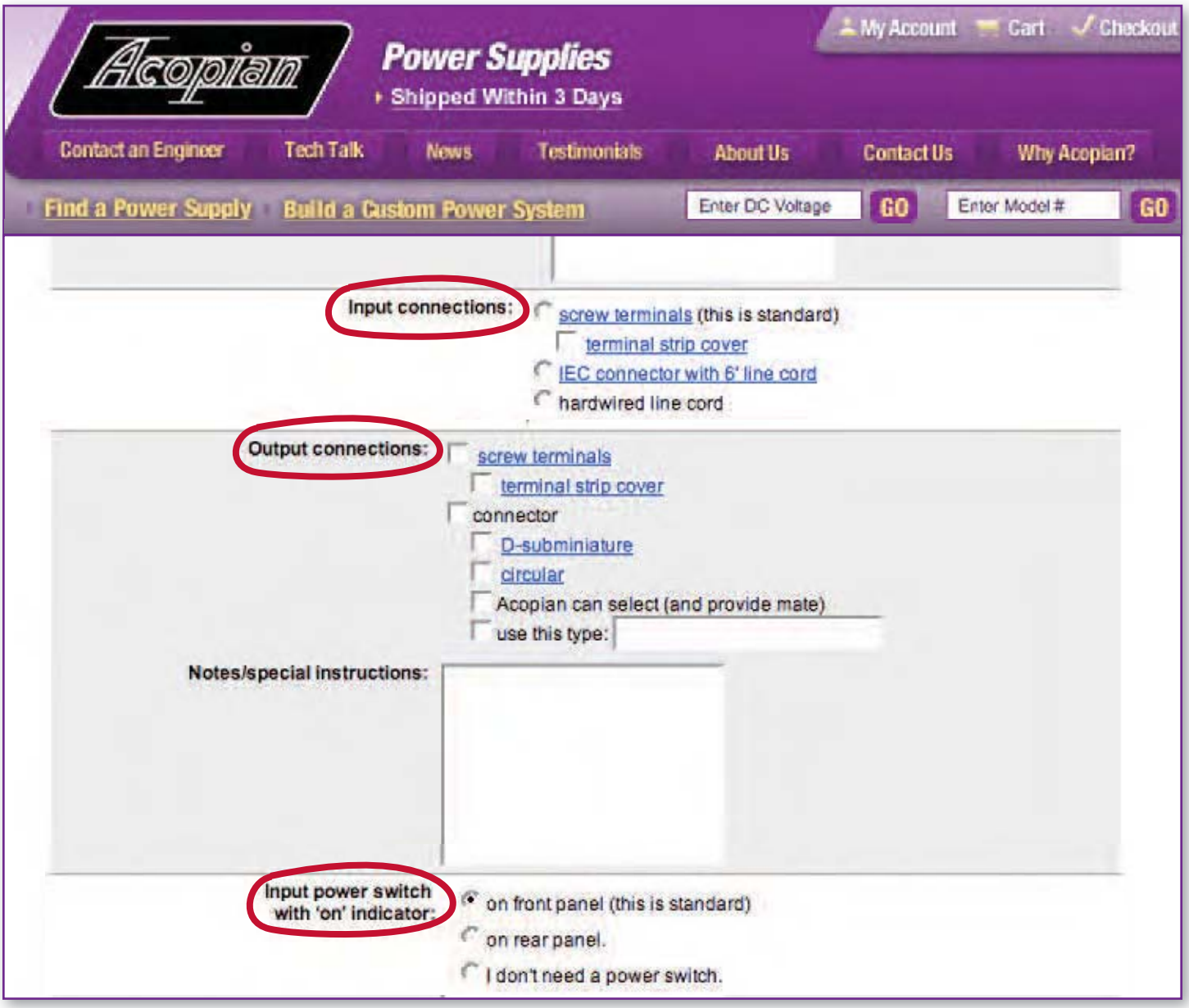
www.acopian.com

Once Online, click here. Then...

Simply 'check' or fill in whichever items you require.



Online Ordering and Instant Quotes for ALL Acopian power supplies at ***www.acopian.com***
P.O. Box 638, Easton, PA 18044 • Phone: (610) 258-5441 • FAX: (610) 258-2842
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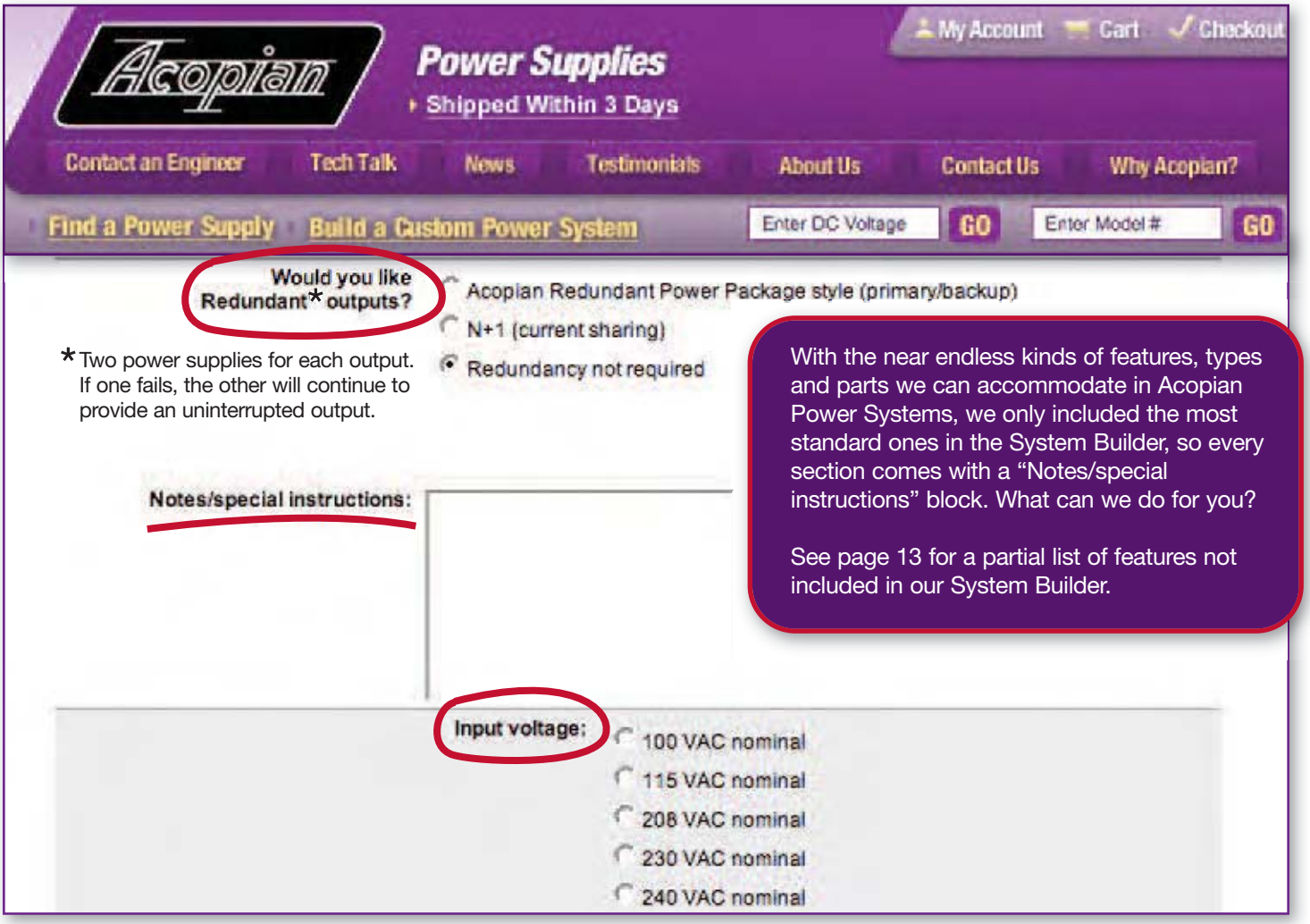




When Northrop Grumman engineers needed a system with output setting precision better than 1%, they turned to Acopian. A digital voltmeter and ammeter permit setting and monitoring the four outputs of this system to three digit accuracy. **Acopian shipped it within 9 Days of receiving the order.** And as is true of all Acopian systems, it shipped with a 5 year warranty.

Next!

Let us know if you want Redundancy in your Acopian Power System.



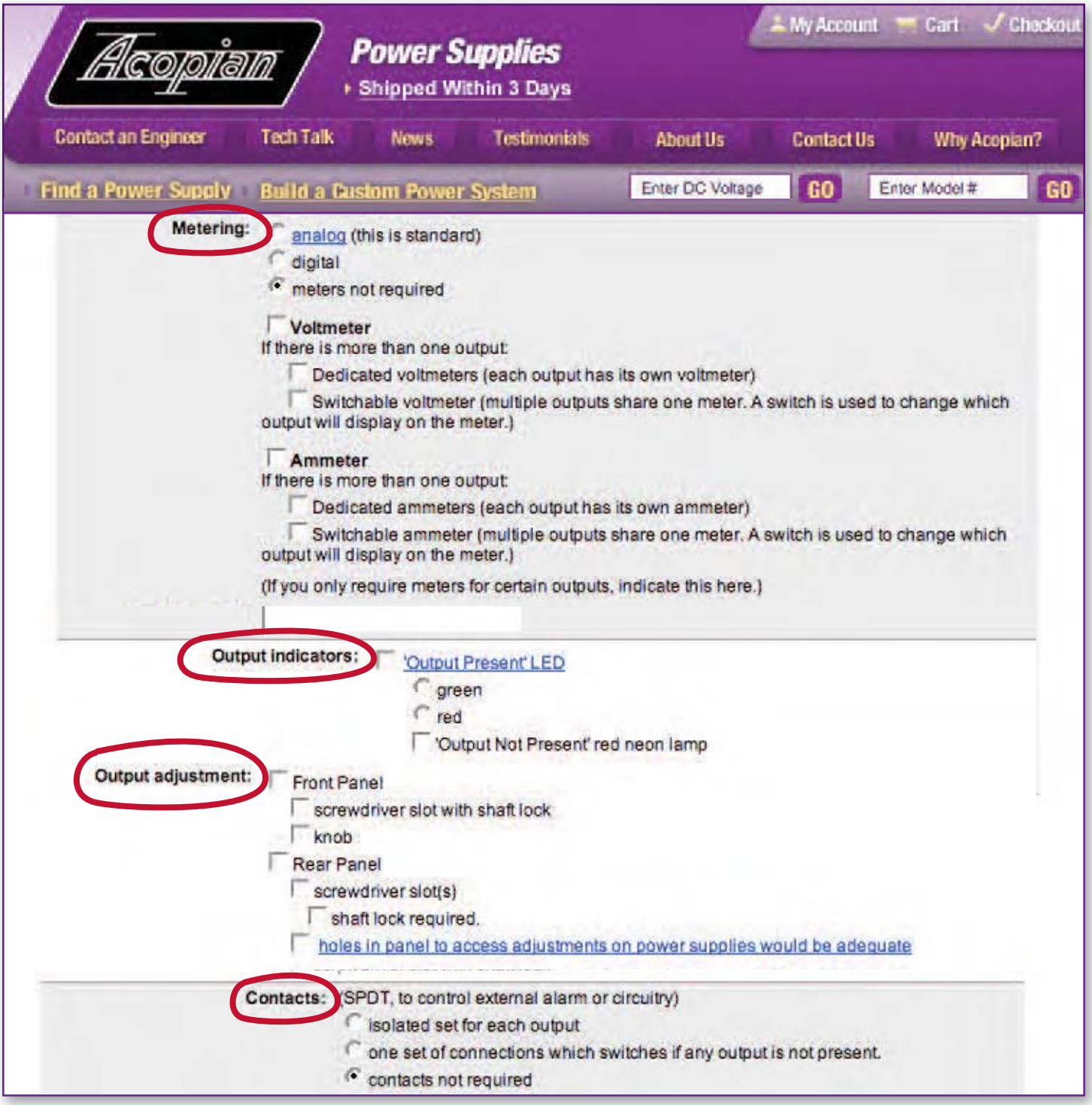
With the near endless kinds of features, types and parts we can accommodate in Acopian Power Systems, we only included the most standard ones in the System Builder, so every section comes with a "Notes/special instructions" block. What can we do for you?

See page 13 for a partial list of features not included in our System Builder.

Two identical linearly regulated power supplies with their outputs connected in parallel provide a 48 Vdc 15A redundant output with line and load regulation better than ±0.05%, and output ripple of less than 1 mV rms, 3 mV p-p. For AC redundancy, each supply can be fed from a different power source, and each has failure alarm contacts for remote monitoring of operating status. Because each supply is physically separate, one supply can be quickly and easily removed from the rack while the other continues to provide uninterrupted power to the load. **This system was shipped within 9 days and carries Acopian's 5 year warranty.**



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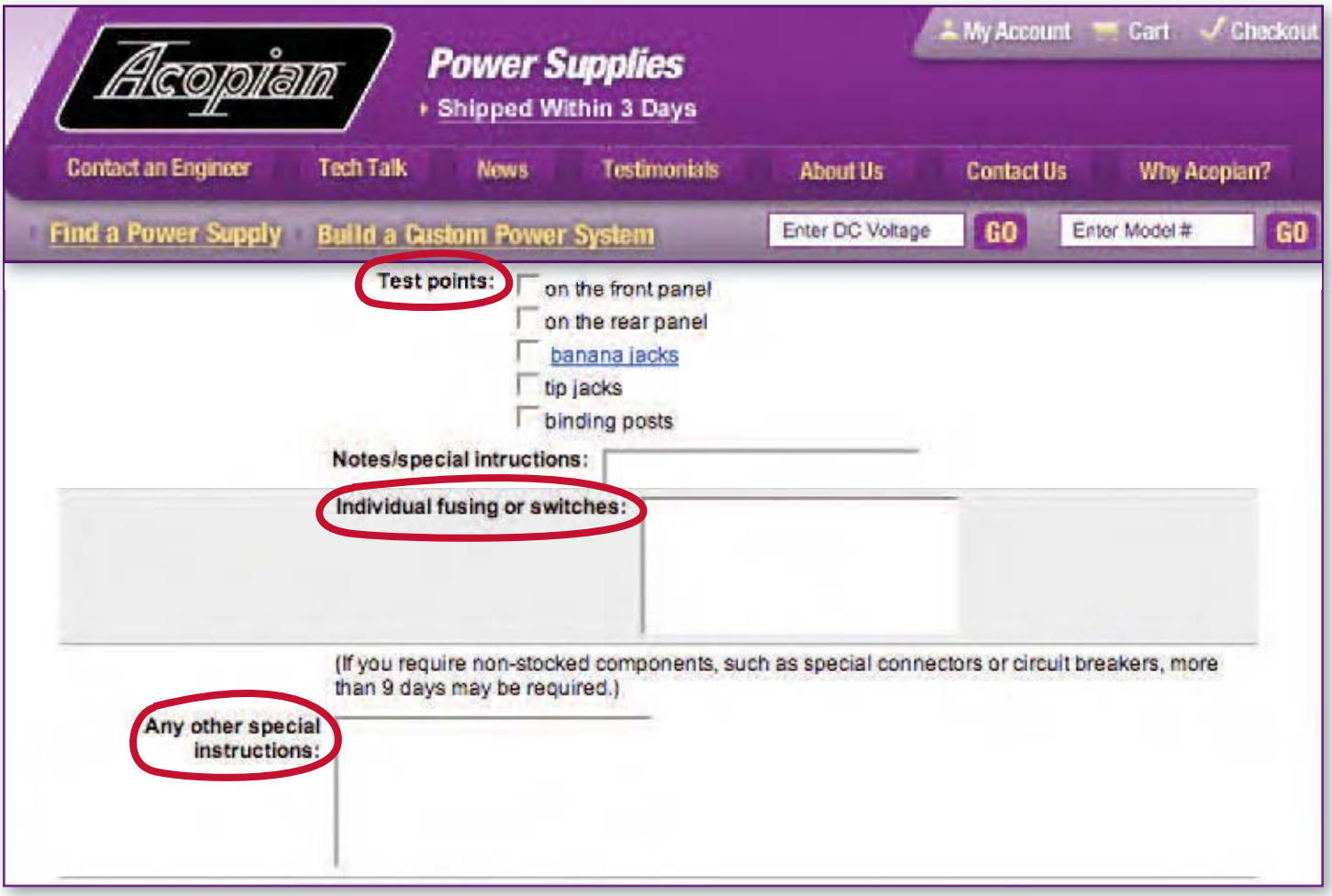


Responding to a customer's critical need, Acopian was able to ship this system in less than the 9 days we had guaranteed to meet or beat. It has front panel voltage and current controls for each of its three outputs, and a voltmeter and ammeter that may be switched to check all output settings. It also has the unusual capability of being operable with either a 208 VAC 3-phase input or 230 VAC single phase, and came with Acopian's 5 year warranty.

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Lastly!

Indicate other special features or instructions you would like in your Acopian Multi-Output Power System.



Then... Click Here to Submit Your 'System'

Your System Builder information is immediately transferred to Acopian via e-mail (you will receive a copy).

Quote!

An engineer will review your information and assign a unique Acopian model number. A quote that includes price, lead-time and a full description of the proposed System will then be e-mailed to you.

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Acopian Power Systems can also include such features as:

Output Features:
Capability to compensate large load line drops
Programmable with 0-5 or 0-10V control voltage
Programmable current control
Capability to provide a surge current at turn-on
Wide adjust zero-up outputs
Modified current limiting characteristics:
- Adjustable current limiting
- Latching current limiting
- Constant current limiting
- Pulsing limiting

Adjustable overvoltage protection
Inhibit and enable control
Multiple sets of fused output terminals
Electrostatically shielded transformers
Low noise/low ripple outputs
Paralleling: passive or active
Switchable polarity outputs
Relay controlled outputs

Input Features:
Selectable input voltage ranges
Logic-controlled turn-on
400 Hz input
90-265 Vac input (Japan)
Optically isolated control inputs
Two AC inputs (for redundancy)

Operating Features:
Monitor outputs (may be scaled)
10-turn output controls
Temperature protection (thermostat)
Voltage and current monitors
Outputs on binding posts
Remote system AC control using SS relays
EMI and RFI filtering/shielding
Safety/interlock switches

Mechanical Features:
Customer specified connectors
Flying lead connections
Output cables
Mounting flanges added
Special case to fit available space
Mounting in NEMA enclosure
Fan cooling
Custom painted
Pluggable modules



Power Systems by Acopian



The possibilities are infinite!



Use the Online System Builder or Call Acopian at 1-800-523-9478 and discuss your requirements with an applications engineer. We'll do the rest.

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Acopian

Need Ultra-Reliability?

Redundant Power Packages and Systems have two power supplies for each output. If one fails, you're still operating.



Wall Mounting
Redundant Power Package



Modular Redundant System
(May be mounted on a DIN rail, wall, chassis or cabinet frame)



Rack Mounting
Redundant Power Package



Pluggable
Redundant
Power Package



Customized Redundant Systems
(Built to your requirements)

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Use Redundant Power

If none of our standard models meets your requirements, we'll build you one that does.
(See pages 6-14)

284 standard models (see pages 16-27), each shipped within 9 Days

Our standard models have outputs from 5 to 125 volts, and up to 1200 watts. Each is fully wired, tested and shipped within 9 days after receiving your order. All that's left for you to do is to connect it to input power and your load.

We can customize Redundants for you

If no standard model meets your needs, we can customize a model for you, or design a 'special' for your unique requirements. We frequently design 'specials' with outputs as high as 3600 watts.

Various configurations to fit the available space

Acopian manufactures redundants in three form factors: rack mounting (some with power supplies that plug in from the front), wall mounting and modular. If you need something different, speak with one of our engineers. We can design a form that meets your requirements.

Proven designs since 1973

There are numerous considerations that go into the design of a good redundant system. (Can the power supplies compensate the voltage drops of the isolation diodes? Is the regulation maintained after the diodes? Is the output stable?) Acopian has been manufacturing a standard line of redundants since 1973. We have the expertise to build redundants that are extremely reliable, provide high performance and are easy to use.

Five Year Warranty

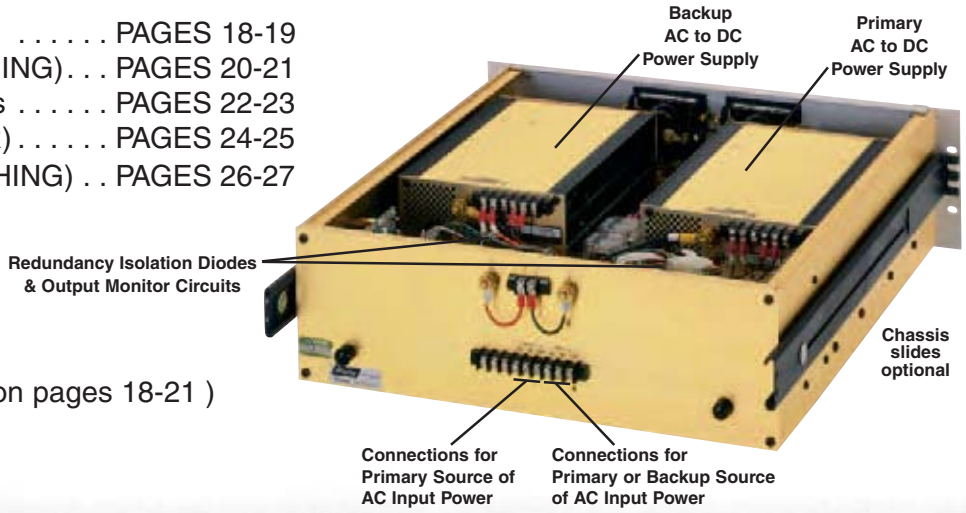
Obviously, the reliability of a redundant system is dependent upon the reliability of the power supplies it uses. We build our supplies so you can operate them reliably for many years, which is why all Acopian Redundants come with an unsurpassed, full 5 year warranty. Our customers have told us about Acopian supplies that have remained in use for 30 years and more.

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REDUNDANT POWER PACKAGES and *MODULAR REDUNDANT SYSTEMS*

(Rack Mounting, Wall Mounting & Pluggable) ***(Three separate modules)***

Redundant Power Packages (LINEAR) . . . . . PAGES 18-19
Redundant Power Packages (SWITCHING) . . . PAGES 20-21
Pluggable Redundant Power Packages . . . . . PAGES 22-23
Modular Redundant Systems (LINEAR) . . . . . PAGES 24-25
Modular Redundant Systems (SWITCHING) . . PAGES 26-27



AC-DC
single output

- Shipped Within 9 Days
- U.L. Recognized (Power Packages on pages 18-21)
- Five Year Warranty

Applications: Redundant Power should be considered for any equipment where the highest attainable reliability is essential, and an unexpected loss of power would be disastrous. Such applications include communications systems (both voice and data types), computer systems (volatile memory systems in particular), process controls, utility and municipal systems, and security/safety alarm systems.

Output Redundancy: Each Redundant Power Package or Modular Redundant System contains two identical power supplies with their outputs interconnected through a diode switching arrangement that will detect any fault condition, isolate it from the system output, and pass only the output of the other supply with no interruption of output power during the transition.

Input Redundancy: All Acopian Redundant Power Packages or Modular Redundant Systems may be operated with only one AC power source. However, two isolated sets of AC input connections are provided, so that two independent sources of AC input power may be used, to obtain the additional benefit of input power redundancy. By feeding one input through a battery-backup power source (UPS), DC output power will be maintained even if both AC power sources should fail.

Serviceability: A defective power supply can be rapidly and safely changed while the other supply continues to furnish uninterrupted power to the load. All input, output and alarm-contact connections are at the rear of the assembly for Rack Mounting models or on the front for Wall Mounting models or Modular Systems. For Rack Mounting models, the chassis slides and handles options are recommended for applications where it is desired to service the Redundant Power Package without removing it from the rack.

Operation: The output voltage of the primary supply is set approximately 0.2 volt higher than that of the backup supply. Under this condition, the backup supply's diode is not forward biased; only the primary supply delivers current to the load. If the output voltage of the primary supply decreases by more than 0.2 volt, the situation is reversed and only the backup supply delivers load current. There is no interruption of output power during the transition.

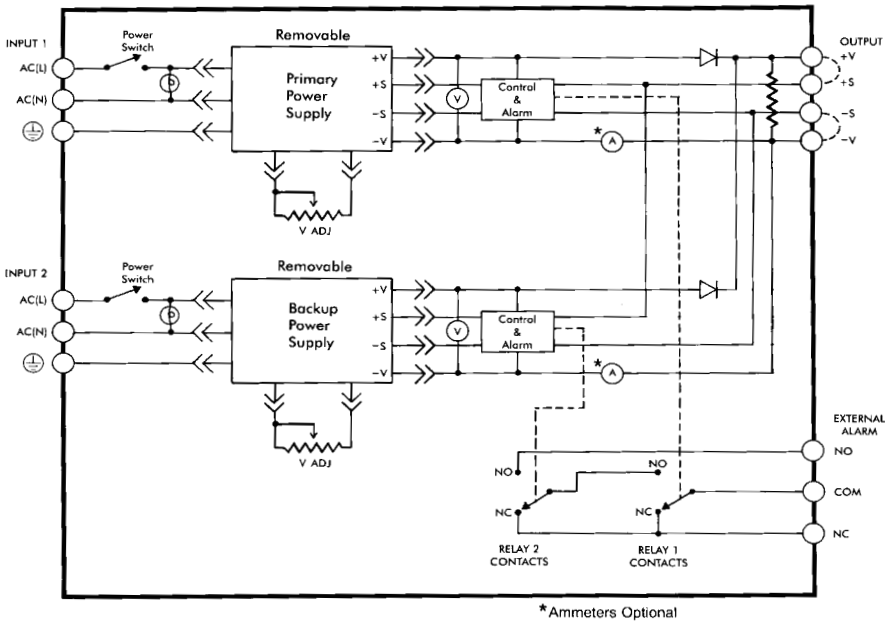
Monitoring Circuitry: Acopian Redundants contain two voltage monitoring circuits with relays, the contacts of which are available to control external failure alarms or other circuitry. The contact wiring of the two relays is connected in cascade, to simulate a single set of Form C contacts which switches if the output voltage of either power supply decreases by more than 2.0 volts from the nominal rating (3.0 volts for Linear models with outputs over 49 volts; 4.0 volts for Switching models with outputs over 49 volts).

Overvoltage Protection: Automatic recovery. Each power supply contains an overvoltage protection circuit, to assure that neither power supply output will significantly exceed the nominal output voltage rating under any condition, including incorrect application and misadjustment.

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Simplified Diagram for Redundant Power Packages

(see page 23 for Simplified Diagram
of the Pluggable Redundant Power Packages
or
page 25 for Simplified Diagram
of the Modular Redundant Systems)



SPECIFICATIONS (for all Redundant Power Packages & Modular Redundant Systems)

Input Voltage: (A separate set of AC input terminals is provided for each power supply, so that if two sources of AC input power are available, one may be used for each supply and so reduce the possibility of output dropout due to loss of input power.)

Linear (all models): 105-125 VAC, 50-400 Hz, single phase.
Switching (Redundant Power Packages): 90-132 VAC, 49-61 Hz, single phase.
For models R24W7, RWL24W7, R28W7, RWL28W7, R48W7 and RWL48W7, the use of 30A lines is recommended.
When operating on 50 Hz input, derate output by 5%.
Switching (Pluggable Redundant Power Packages): 90-265 VAC, 49-420 Hz, single phase.
Switching (Modular Redundant Systems): 90-265 VAC, 49-420 Hz, single phase.

Remote Voltage Sensing: Provision for sensing the output voltage across the load, so that drops in the load lines are compensated, is a standard feature.

Output Voltage:
Normal mode: Nominal voltage shown in tables.
Backup mode: 0.2 volt less than nominal voltage shown in tables.

Output Regulation:
Line: ±0.05%
Load: ±0.05% (Dynamic regulation - does not include 0.2 volt shift which occurs during switchover to lower-set backup supply.)

Load Protection: Overvoltage protection.

Overload/Short Circuit Protection: Foldback current limiting with automatic recovery (Switching Modular Redundant Systems and Pluggable Redundant Power Packages have current limiting with automatic recovery).

Polarity: Output is floating; either positive or negative output terminal may be grounded or floated up to 300 volts above ground.

Output Monitoring:
Redundant Power Packages: A separate voltmeter for each output (standard). Ammeters available; see Options.
Modular Redundant Systems: 'Output Present' LED for each power supply is located on the Integration Module. ('Output Present' green LEDs are also located on each power supply (DC on) on the Switching Regulated Modular Redundant Systems.)

Alarm Relay Contact Ratings: 120 VAC, 8A / 60 Vdc, 1A. (To comply with SELV requirements, limit switched voltage to 60Vdc/42 VAC.)

Temperature Coefficient: 0.02%/°C (Typical).

Ambient Operating Temperature:
Linear: –20 to +71°C.
Switching: 0 to +71°C.

Storage Temperature:
Linear: –55 to +85°C.
Switching: –40 to +85°C.

Terminal Strip Cover: Clips on.

LINEAR REGULATED

REDUNDANT POWER PACKAGES

Rack Mounting & Wall Mounting

AC-DC

single output

- Shipped Within 9 Days
- All Models U.L. Recognized
- Five Year Warranty

An Acopian Redundant Power Package is installed by simply connecting the AC input and DC output terminals. All wiring (including isolation diodes, output monitor circuits, switches, meters, adjustments and connectors) has been done for you.

Rack Mounting



(Ammeters and handles optional)

For Specifications and other information, see pages 16 & 17.

OPTIONS

Add option suffixes in alphabetical order. Example: R5H16AH-230.

Ammeters: One for each output. For models in case sizes 3R14 and 317R18 two volt/ammeters, each with switch, are substituted for the standard voltmeters. Add suffix "A" to model number and $120.00 to price.

Audible Alarms: Piercing whistle alerts personnel to a voltage lower than normal. Front panel mounted, one for each power supply. When this option is included and the alarm contacts are also used, meeting SELV levels requires that the input voltages be no greater than 125 VAC. To order, add suffix "K" to model number and $90.00 to price.

Separate Alarm Contacts for each Power Supply: If a power supply's output is incorrect, using two alarms permits remotely identifying that power supply. Each contact set is Form C (SPDT). To order, add suffix "R" to model number and $35.00 to price.(Cannot combine "K" and "R" options on Wall Mounting units.)

Handles (for Rack Mounting models)**:** Add suffix "H" to model number and $30.00 to price.

Chassis Slides (for Rack Mounting models)**:** For racks having rear mounting rails spaced 20˝ to 26˝ behind the front panel. To order, add suffix "S" to model number and $90.00 to price.

230 Volt Input: For operation on inputs of 210-250 VAC, 50-400 Hz. To order, add suffix "–230" to model number and $75.00 to price. Requires two additional days.

Linear Regulated REDUNDANT POWER PACKAGES

Nominal Output Voltage	Adjust Range ±V	Output Current Amps. at 40°C	55°C	71°C	Ripple mV RMS	Rack Mounting Models ($) Price	Model	Case Size	Wall Mounting Models ($) Price	Model	Case Size
5	.5	2.6	2.5	2.4	1	1095	R5N8X	3R14	1395	RWL5N8X	317R18
5	.5	5.3	4.4	3.5	1	1195	R5M6	5R14	1495	RWL5M6	517R18
5	.5	11	9.3	7.5	1	1295	R5M13	5R18	1595	RWL5M13X	517R20
5	.5	21	17	14	1	1495	R5H11	7R18	1795	RWL5H11	719R20
5	.5	28	23	19	1	1695	R5H16	7R20	1995	RWL5H16	719R25
12	.5	1.5	1.5	1.5	1	1095	R12N8X	3R14	1395	RWL12N8X	317R18
12	.5	3.5	3	2.5	1	1195	R12M6	5R14	1495	RWL12M6	517R18
12	.5	8	7.5	7	1	1295	R12M13	5R18	1595	RWL12M13X	517R20
12	.5	16	13.8	11.2	1	1495	R12H11	7R18	1795	RWL12H11	719R20
12	.5	20	17	14.2	1	1695	R12H16	7R20	1995	RWL12H16	719R25
15	.5	1.5	1.5	1.5	1	1095	R15N8X	3R14	1395	RWL15N8X	317R18
15	.5	4	3.8	3.6	1	1195	R15M9	5R14	1495	RWL15M9	517R18
15	.5	6.5	6	5.5	1	1295	R15M13	5R18	1595	RWL15M13X	517R20
15	.5	14.7	12.5	10.3	1	1495	R15H11	7R18	1795	RWL15H11	719R20
15	.5	18.7	16	13.3	1	1695	R15H16	7R20	1995	RWL15H16	719R25
24	.5	.9	.9	.9	1	1095	R24N8X	3R14	1395	RWL24N8X	317R18
24	.5	3	2.7	2.4	1	1195	R24M9	5R14	1495	RWL24M9	517R18
24	.5	5	5	5	1	1295	R24M13	5R18	1595	RWL24M13X	517R20
24	.5	11.7	10.2	8.7	1	1495	R24H11	7R18	1795	RWL24H11	719R20
24	.5	14.7	12.7	10.7	1	1695	R24H16	7R20	1995	RWL24H16	719R25
28	.5	1	1	1	1	1095	R28N8X	3R14	1395	RWL28N8X	317R18
28	.5	2.7	2.6	2.5	1	1195	R28M9	5R14	1495	RWL28M9	517R18
28	.5	5	5	5	1	1295	R28M13	5R18	1595	RWL28M13X	517R20
28	.5	10.5	9.2	8	1	1495	R28H11	7R18	1795	RWL28H11	719R20
28	.5	14	12	10	1	1695	R28H16	7R20	1995	RWL28H16	719R25
48	.5	.4	.4	.4	1	1130	R48N8T	3R14	1430	RWL48N8T	317R18
48	.5	1.6	1.4	1.2	1	1240	R48M9	5R14	1540	RWL48M9	517R18
48	.5	3	3	3	1	1340	R48M13	5R18	1640	RWL48M13X	517R20
48	.5	6	5	4	1	1545	R48H11	7R18	1845	RWL48H11	719R20
48	.5	8.5	7.2	5.5	1	1835	R48H16	7R20	2135	RWL48H16	719R25
60	1	.25	.25	.25	1	1160	R60N8T	3R14	1460	RWL60N8T	317R18
60	1	1	.9	.8	1	1270	R60M9	5R14	1570	RWL60M9	517R18
60	1	2.5	2.1	1.7	1	1370	R60M13	5R18	1670	RWL60M13X	517R20
60	1	5	4.1	3.3	1	1575	R60H11	7R18	1875	RWL60H11	719R20
60	1	7	5.8	4.6	1	1845	R60H16	7R20	2145	RWL60H16	719R25
120	1	.12	.12	.12	1	1180	R120N8T	3R14	1480	RWL120N8T	317R18
120	1	.5	.5	.4	1	1295	R120M6	5R14	1595	RWL120M6	517R18
120	1	1.2	1.1	1	1	1400	R120M13	5R18	1700	RWL120M13X	517R20
120	1	2.5	2	1.6	1	1615	R120H11	7R18	1915	RWL120H11	719R20
120	1	3.5	2.9	2.3	1	1890	R120H16	7R20	2190	RWL120H16	719R25
125	1	.12	.12	.12	1	1200	R125N8T	3R14	1500	RWL125N8T	317R18
125	1	.4	.4	.4	1	1315	R125M6	5R14	1615	RWL125M6	517R18
125	1	1.2	1.1	1	1	1420	R125M13	5R18	1720	RWL125M13X	517R20
125	1	2.4	1.9	1.5	1	1635	R125H11	7R18	1935	RWL125H11	719R20
125	1	3.4	2.8	2.3	1	1910	R125H16	7R20	2210	RWL125H16	719R25

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Wall Mounting



(Ammeters optional)

PARALLELABLE "SEMISYSTEM" POWER SUPPLIES

LINEAR REGULATED

Two units connected in parallel function the same as a Redundant Power Package.



(Handles optional)

SHIPPED WITHIN 9 DAYS
FIVE YEAR WARRANTY
ALL MODELS U.L. RECOGNIZED

Each supply contains a voltmeter, isolation diodes, a voltage monitor circuit providing contacts for control of an external alarm (or built-in audible alarm) and overvoltage protection circuit, so that two paralleled units are functionally equivalent to a Redundant Power Package. All connections are by means of a Jones connector (mate provided), so that one supply may be quickly, easily and safely installed in or removed from the rack while another provides uninterrupted power to the load. For a redundant system, order two units.

Specifications: Same as shown under SPECIFICATIONS on page 17 for Linear Redundant Power Packages.

Case Size: 5¼″ x 19″ panel, 16 13/16″ deep. (53 lbs.)
To allow for mating connector and radius of wiring, mounting space should be at least 20″ deep.

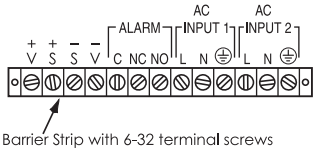
CASE SIZES:

Rack Mounting:

3R14	3½″ x 19″ panel, 14 13/16″ deep. (15 lb.)
5R14	5¼″ x 19″ panel, 14 13/16″ deep. (23 lb.)
5R18	5¼″ x 19″ panel, 17⅞″ deep. (29 lb.)
7R18	7″ x 19″ panel, 18½″ deep. (50 lb.)
7R20	7″ x 19″ panel, 20½″ deep. (64 lb.)

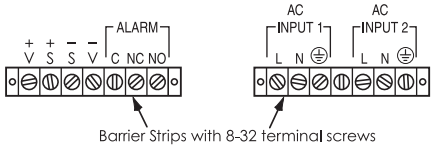
Wall Mounting: See page 21.

CONNECTIONS FOR CASE SIZES 3R14, 317R18, 5R14, 5R18, 517R18 and 517R20:



Barrier Strip with 6-32 terminal screws

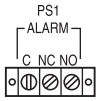
CONNECTIONS FOR CASE SIZES 7R18, 7R20, 719R20, and 719R25:



Barrier Strips with 8-32 terminal screws

Additional CONNECTIONS for "R" Option: Separate Alarm Contacts for each Power Supply

(Note: Connections for 'ALARM' in above drawings become connections for 'PS2 ALARM')



PARALLELABLE "SEMISYSTEM" POWER SUPPLIES
Linear Regulated

For a redundant system, order two units.

Nominal Output Voltage	Adjust Range ±V	Output Current Amps. at 40°C	Output Current Amps. at 55°C	Ripple mV RMS	($) Price	Model	Case Size
5	.5	55	43	1	1095	R5PH17	5R17
12	.5	41	32	1	1095	R12PH17	5R17
15	.5	37	29	1	1095	R15PH17	5R17
24	.5	28	22	1	1095	R24PH17	5R17
28	.5	27	21	1	1095	R28PH17	5R17
48	.5	15	12	1	1095	R48P17	5R17

OPTIONS

Add option suffixes in alphabetical order.

Ammeter: Add suffix letter "A" to model number and $60.00 to unit price.

Handles: Add suffix "H" to model number and $30.00 to unit price.

Audible Alarm: Whistle alerts personnel to voltage lower than normal. Front panel mounted. Units with this option do not have provision for control of an external alarm. Add suffix "K" to model number and $45.00 to unit price.

230 Volt Input: For operation on inputs of 210-250 VAC, 50-400 Hz. To order, add suffix "–230" to model number and $40.00 to unit price. Requires two additional days.

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SWITCHING REGULATED

REDUNDANT POWER PACKAGES

Rack Mounting & Wall Mounting

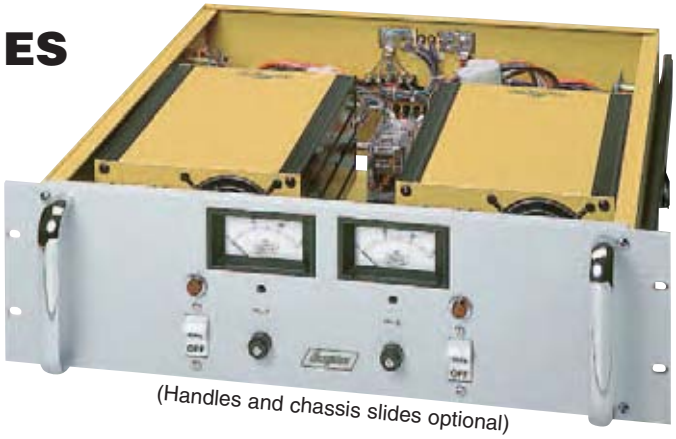
AC-DC

single output

- Shipped Within 9 Days
- All Models U.L. Recognized
- Five Year Warranty

An Acopian Redundant Power Package is installed by simply connecting the AC input and DC output terminals. All wiring (including isolation diodes, output monitor circuits, switches, meters, adjustments and connectors) has been done for you.

Rack Mounting



(Handles and chassis slides optional)

For Specifications and other information, see pages 16 & 17.

OPTIONS

Add option suffixes in alphabetical order. Example: R12W6AH-230.

Ammeters: One for each output. Add suffix letter "A" to model number and $120 to price.

Audible Alarms: Piercing whistle alerts personnel if the power supply's output deviates by more than 2 volts from the nominal rating. Front panel mounted, one for each power supply. When this option is included and the alarm contacts are also used, meeting SELV levels requires that the input voltages be no greater than 125 VAC. To order, add suffix "K" to model number and $90.00 to price.

Separate Alarm Contacts for each Power Supply: If a power supply's output is incorrect, using two alarms permits remotely identifying that power supply. Each contact set is Form C (SPDT). To order, add suffix "R" to model number and $35.00 to price. (Cannot combine "K" and "R" options on Wall Mounting units.)

Handles (for Rack Mounting models)**:** Add suffix "H" to model number and $30.00 to price.

Chassis Slides (for Rack Mounting models)**:** For racks having rear mounting rails spaced 20″ to 26″ behind the front panel. To order, add suffix "S" to model number and $90.00 to price.

230 Volt Input: For operation on inputs of 180-264 VAC, 49-61 Hz. To order, add suffix "–230" to model number and $100.00 to price. Requires two additional days.

Rack Mounting Case Sizes:

5RW16 5¼″ x 19″ panel, 16 13/16″ deep. (21 lb.)
5RW18 5¼″ x 19″ panel, 18 13/16″ deep. (27 lb.)
5RW22 5¼″ x 19″ panel, 22 13/16″ deep. (32 lb.)

Wall Mounting Case Sizes: See page 21.

Switching Regulated REDUNDANT POWER PACKAGES

Nominal Output Voltage	Adjust Range ±V	Output Current Amps. at			Ripple mV (@ 25 MHz BW)		Rack Mounting Models			Wall Mounting Models		
		40°C	55°C	71°C	RMS	P-P	($) Price	Model	Case Size	($) Price	Model	Case Size
12	.5	26	22	18	15	100	1995	R12W6	5RW16	2295	RWL12W6	519RW15
12	.5	41	35	28	15	100	2395	R12W9	5RW18	2695	RWL12W9	519RW18
12	.5	61	52	42	15	100	2795	R12G7	5RW22	3095	RWL12G7	522RW17
15	.5	21	18	15	15	100	1995	R15W6	5RW16	2295	RWL15W6	519RW15
15	.5	33	28	23	15	100	2395	R15W9	5RW18	2695	RWL15W9	519RW18
15	.5	49	42	34	15	100	2795	R15G7	5RW22	3095	RWL15G7	522RW17
24	.5	15	13	11	15	100	1995	R24W6	5RW16	2295	RWL24W6	519RW15
24	.5	24	21	17	15	100	2395	R24W9	5RW18	2695	RWL24W9	519RW18
24	.5	36	31	25	15	100	2795	R24G7	5RW22	3095	RWL24G7	522RW17
24	.5	50	42	35	15	100	2995	R24W7	5RW22	3295	RWL24W7	522RW17
28	.5	13	11	9	15	100	1995	R28W6	5RW16	2295	RWL28W6	519RW15
28	.5	20	17	14	15	100	2395	R28W9	5RW18	2695	RWL28W9	519RW18
28	.5	30	26	21	15	100	2795	R28G7	5RW22	3095	RWL28G7	522RW17
28	.5	42	35	29	15	100	2995	R28W7	5RW22	3295	RWL28W7	522RW17
48	.5	8	7	5	25	150	1995	R48W6	5RW16	2295	RWL48W6	519RW15
48	.5	12	10	8	25	150	2395	R48W9	5RW18	2695	RWL48W9	519RW18
48	.5	19	16	13	25	150	2795	R48G7	5RW22	3095	RWL48G7	522RW17
48	.5	25	21	17	25	150	2995	R48W7	5RW22	3295	RWL48W7	522RW17

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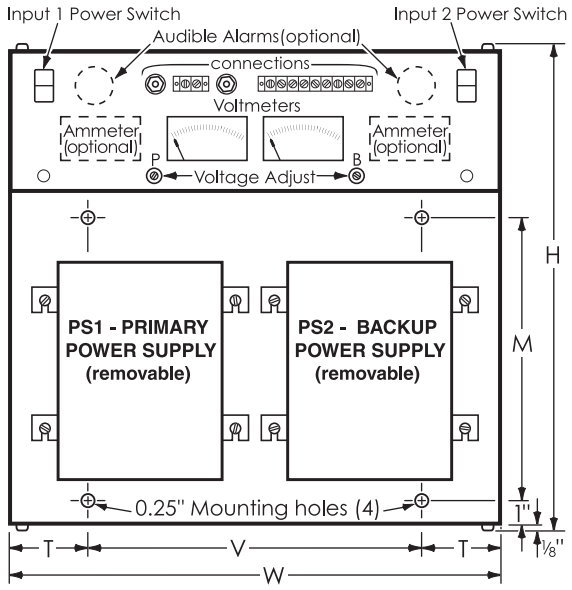
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Wall Mounting



(Ammeters optional)

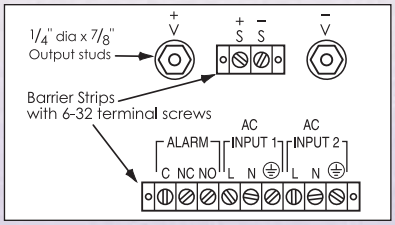
Wall Mounting Case Sizes:



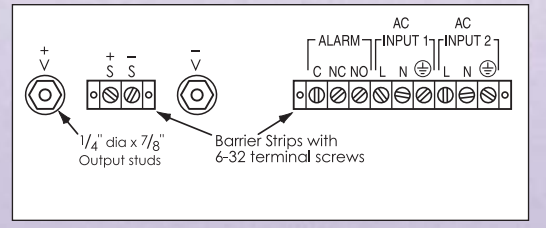
Case Size	H	W	M	V	T	Depth	Approx. Weight
317R18	18½″	17	11	14	1½	4¼	18 lb.
517R18	18½″	17	11	14	1½	6	22-26 lb.
517R20	20½″	17	13	13	2	6	34 lb.
519RW15	15½″	19	8	13	3	6 1/16	24 lb.
519RW18	18½″	19	11	13	3	6 1/16	27 lb.
522RW17	17¼″	22½	10	16½	3	6 1/16	33 lb.
719R20	20½″	19	13	13	3	7¾	58 lb.
719R25	25½″	19	18	13	3	7¾	70 lb.

CONNECTIONS:

RACK MOUNTING

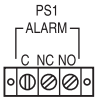


WALL MOUNTING



Additional CONNECTIONS for "R" Option:
Separate Alarm Contacts for each Power Supply

(Note: Connections for 'ALARM' in above drawings become connections for 'PS2 ALARM')



SWITCHING REGULATED

PLUGGABLE REDUNDANT POWER PACKAGES

(Power Factor Correction and Universal Input)

AC-DC

single output

- Shipped Within 9 Days
- Five Year Warranty

Extremely high overall reliability results from connecting two power sources so that one will continue to provide power to their load even if the other becomes inoperative. Acopian Redundant Power Packages have all the wiring done for you - not only isolation diodes, but also switches, meters, adjustments and output monitor circuits. All you need to do is connect the input and output terminals.



Two Voltmeters (standard)
Two Ammeters (optional)
Audible Alarms (optional)
Handles (optional)

For more Specifications and information, see pages 16 & 17.

System Description: These models are functionally identical to the other Redundant Power Packages, but have the added advantage that a power supply can literally be changed in seconds.

OPTIONS

Add option suffixes in alphabetical order.
Example: R24WP8XAHKS.

Ammeters: One for each output. Add suffix letter "A" to model number and $120.00 to price.

Audible Alarms: Front panel mounted, one for each power supply. Piercing whistle alerts personnel if the power supply's output deviates by more than 2 volts from the nominal rating (4 volts for 50 to 125 volt models). When this option is included and the alarm contacts are also used, meeting SELV levels requires that the input voltages be no greater than 125 VAC. To order, add suffix "K" to model number and $90.00 to price.

Separate Alarm Contacts for each Power Supply: If a power supply's output is incorrect, using two alarms permits remotely identifying that power supply. Each contact set is Form C (SPDT). To order, add suffix "R" to model number and $35.00 to price.

Handles: Add suffix "H" to model number and $30.00 to price.

Chassis Slides: For racks having rear mounting rails spaced 20″ to 26″ behind the front panel. To order, add suffix "S" to model number and $90.00 to price.

SPECIFICATIONS

Input Voltage: 90-265 VAC, 49-420 Hz, single phase.
(A separate set of AC input terminals is provided for each power supply, so that if two sources of AC input power are available, one may be used for each supply and so reduce the possibility of output dropout due to loss of input power.)

Power Factor: 0.99 typical at 115 VAC, 60Hz and full load. Complies with EN61000-3-2.

Drift: ±0.1% typical over 8 hours, after 30 minute warmup.

Inrush Current: Cold start, (thermistor limiter) 20A peak @115 VAC; 40A peak @ 230 VAC.

Startup Time: 800 mS typical.

Remote Sensing: Compensates up to 0.5 volt drop per output line (1 volt for 50 to 125 volt models), within the limits of the output voltage adjustment range.

Holdup Time: 16 mS minimum.

Transient Response: 300 µS to return to ±1% of output setting. Maximum of ±3% output excursion following a load step change from 50% to 100%.

Switching Frequency: 100 kHz (Typical).

Isolation: Input to output, input to case; 500 VAC.
Output to case; 300 VAC

Thermal Protection: Thermostat, self-resetting.

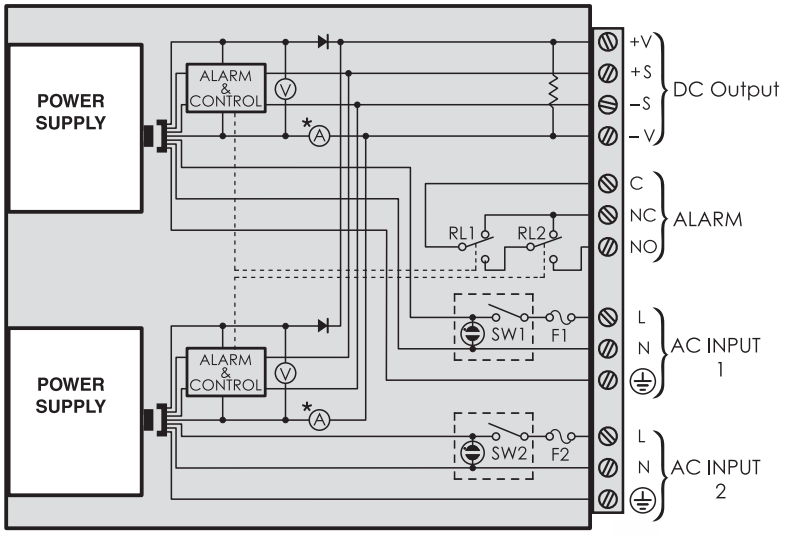
Cooling: Forced-air cooled; air enters front of system and exits from top.

CASE SIZE: 5RP13 5¼″ x 19″ panel, 12¾″ deep. (14 lb. 4 oz.)

Online Ordering and Instant Quotes for ALL Acopian power supplies at ***www.acopian.com***
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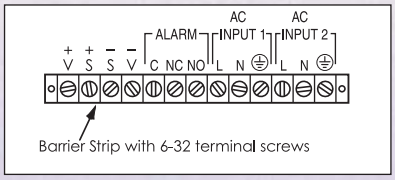
Nominal Output Voltage	Adjust Range ±V	Output Current Amps. at 40°C	55°C	71°C	Ripple mV (@ 25 MHz BW) RMS	P-P	($) Price	Model	Case Size
3.3	.5	15.4	13	10.7	10	50	1390	R3.3WP8X	5RP13
3.3	.5	24	20.5	16.8	10	50	1550	R3.3WP8	5RP13
5	.5	15.4	13	10.7	10	50	1390	R5WP8X	5RP13
5	.5	24	20.5	16.8	10	50	1550	R5WP8	5RP13
6	.5	15	12.6	10.5	10	50	1390	R6WP8X	5RP13
6	.5	23	19.5	16.8	10	50	1550	R6WP8	5RP13
7	.5	14.7	12.4	10.3	10	50	1390	R7WP8X	5RP13
7	.5	23	19.5	16.1	10	50	1550	R7WP8	5RP13
8	.5	14.4	12	10	15	100	1390	R8WP8X	5RP13
8	.5	23	19.5	16.1	15	100	1550	R8WP8	5RP13
9	.5	14.1	12	9.8	15	100	1390	R9WP8X	5RP13
9	.5	22	18.7	15.4	15	100	1550	R9WP8	5RP13
10	.5	13.5	11.5	9.5	15	100	1390	R10WP8X	5RP13
10	.5	21	18.5	15	15	100	1550	R10WP8	5RP13
12	.5	12.3	10.5	8.6	15	100	1390	R12WP8X	5RP13
12	.5	20	17	14	15	100	1550	R12WP8	5RP13
13	.5	11.3	9.7	7.9	15	100	1390	R13WP8X	5RP13
13	.5	18.4	15.7	12.9	15	100	1550	R13WP8	5RP13
14	.5	10.9	9.3	7.6	15	100	1390	R14WP8X	5RP13
14	.5	17.6	15	12.3	15	100	1550	R14WP8	5RP13
15	.5	10.2	8.7	7.1	15	100	1390	R15WP8X	5RP13
15	.5	16.5	14	11.5	15	100	1550	R15WP8	5RP13
18	.5	8.5	7.2	5.9	15	100	1390	R18WP8X	5RP13
18	.5	13.7	11.6	9.5	15	100	1550	R18WP8	5RP13
20	.5	7.6	6.5	5.3	15	100	1390	R20WP8X	5RP13
20	.5	12.7	10.7	8.8	15	100	1550	R20WP8	5RP13
24	.5	7.2	6.1	5	15	100	1390	R24WP8X	5RP13
24	.5	11.5	9.8	8	15	100	1550	R24WP8	5RP13
25	.5	6.6	5.6	4.6	15	100	1390	R25WP8X	5RP13
25	.5	10.6	9	7.4	15	100	1550	R25WP8	5RP13
28	.5	5.9	5	4.1	15	100	1390	R28WP8X	5RP13
28	.5	9.5	8.1	6.7	15	100	1550	R28WP8	5RP13
30	.5	5.6	4.8	4	25	150	1390	R30WP8X	5RP13
30	.5	8.7	7.4	6.1	25	150	1550	R30WP8	5RP13
32	.5	5.2	4.5	3.7	25	150	1390	R32WP8X	5RP13
32	.5	8.3	7	5.8	25	150	1550	R32WP8	5RP13
36	.5	4.7	4	3.3	25	150	1390	R36WP8X	5RP13
36	.5	7.7	6.5	5.4	25	150	1550	R36WP8	5RP13
40	.5	4.2	3.6	3	25	150	1390	R40WP8X	5RP13
40	.5	6.8	5.8	4.8	25	150	1550	R40WP8	5RP13
48	.5	3.5	3	2.5	25	150	1390	R48WP8X	5RP13
48	.5	5.7	4.9	4	25	150	1550	R48WP8	5RP13
50	1	3.3	2.8	2.3	50	150	1390	R50WP8X	5RP13
50	1	5	4.3	3.5	50	150	1550	R50WP8	5RP13
55	1	3	2.5	2.1	50	150	1390	R55WP8X	5RP13
55	1	4.5	3.8	3.1	50	150	1550	R55WP8	5RP13
60	1	2.8	2.3	1.9	50	150	1390	R60WP8X	5RP13
60	1	4.2	3.5	2.9	50	150	1550	R60WP8	5RP13
70	1	2.4	2	1.7	67	200	1390	R70WP8X	5RP13
70	1	3.6	3.1	2.5	67	200	1550	R70WP8	5RP13
75	1	2.2	1.8	1.5	67	200	1390	R75WP8X	5RP13
75	1	3.3	2.8	2.3	67	200	1550	R75WP8	5RP13
80	1	2.1	1.7	1.4	67	200	1390	R80WP8X	5RP13
80	1	3.1	2.6	2.2	67	200	1550	R80WP8	5RP13
90	1	1.8	1.5	1.3	100	300	1390	R90WP8X	5RP13
90	1	2.8	2.4	2	100	300	1550	R90WP8	5RP13
100	1	1.7	1.4	1.2	150	450	1390	R100WP8X	5RP13
100	1	2.5	2.1	1.8	150	450	1550	R100WP8	5RP13
110	1	1.5	1.3	1.1	150	450	1390	R110WP8X	5RP13
110	1	2.3	1.9	1.6	150	450	1550	R110WP8	5RP13
120	1	1.4	1.2	1	150	450	1390	R120WP8X	5RP13
120	1	2.1	1.8	1.5	150	450	1550	R120WP8	5RP13
125	1	1.3	1.1	0.9	150	450	1390	R125WP8X	5RP13
125	1	2	1.7	1.4	150	450	1550	R125WP8	5RP13

Simplified Diagram for Pluggable Redundant Power Packages



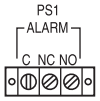
*Ammeters optional

CONNECTIONS:



Additional CONNECTIONS for "R" Option:
Separate Alarm Contacts for each Power Supply

(Note: Connections for 'ALARM' in the above drawing become connections for 'PS2 ALARM')



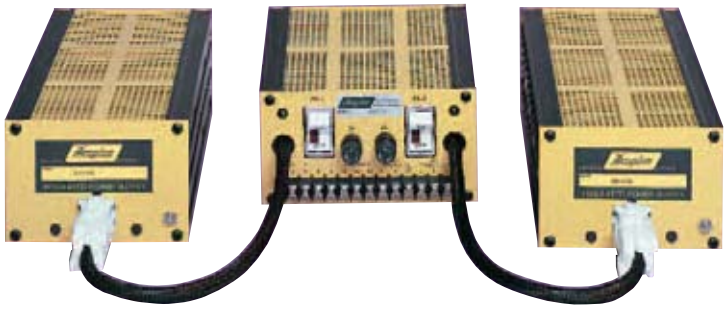
LINEAR REGULATED

MODULAR REDUNDANT SYSTEMS

AC-DC

single output

- Shipped Within 9 Days
- Five Year Warranty



These systems have the versatility to be mounted in a wide variety of ways - within a system cabinet, on a DIN rail or to a wall. Another benefit is that the three modules need not be mounted together, so that if a control panel is crowded, just the Integration Module may be mounted there and the power supplies mounted elsewhere.

For Specifications and other information, see pages 16 & 17.

System Description: Each Modular Redundant DC Power System consists of three units: two identical power supplies connected to an Integration Module by 24" long cables. The Integration Module includes the diodes for isolating the power supply outputs, AC input switches, input fuses, LED 'output present' indicators, failure alarm circuits, and the umbilical cables which plug into the power supplies. Connections for the AC inputs, redundant DC output and failure alarm relays are on a screw terminal strip.

Mounting: Each module has threaded mounting holes which permit mounting to a chassis, cabinet wall or bracket, or they may be used on a test bench or tabletop. To mount from the power supply side of the mounting surface or for DIN rail mounting, use an Accessory Mounting Kit (see page 25).

Interconnection: The Integration Module has two 24 inch long cables.

OPTIONS

Cable lengths: Although 24" is standard, any other length from 12" to 60" may be ordered as an option. To order, add suffix "C??" to model number and $60.00 to price. Replace the "??" with the cable length desired. For example, if you are ordering Model RM24M9 with 4 foot (48") cables, the model number would be RM24M9C48, and the price would be $995.00+$60.00=$1055.00.

230 Volt Input: All models can be alternately furnished for operation on inputs of 210-250 VAC, 50-400 Hz. To order, add suffix "–230" to model number and $80.00 to price. The "–230" option requires two additional days.

Linear Regulated MODULAR REDUNDANT SYSTEMS

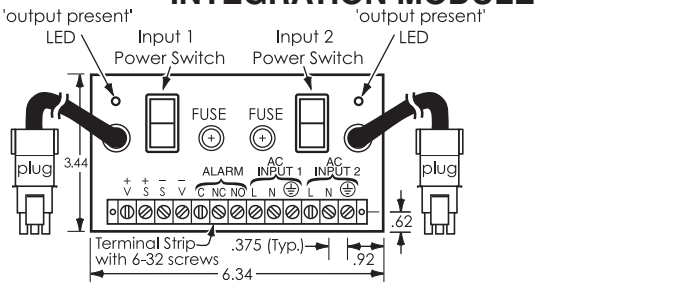
Nominal Output Voltage	Adjust Range ±V	Output Current Amps. at 40°C	55°C	71°C	Ripple mV RMS	($) Price	Model	Case sizes: Integration Module	Power Supplies (2)
5	.5	2.6	2.5	2.4	1	895	RM5N8X	RM6	CN8H
5	.5	5.3	4.4	3.5	1	995	RM5M6	RM6	CM6
5	.5	11	9.3	7.5	1	1095	RM5M13	RM6	CM13
5	.5	21	17	14	1	1295	RM5H11	RM6	CH11
12	.5	1.5	1.5	1.5	1	895	RM12N8X	RM6	CN8H
12	.5	3.5	3	2.5	1	995	RM12M6	RM6	CM6
12	.5	8	7.5	7	1	1095	RM12M13	RM6	CM13
12	.5	16	13.8	11.2	1	1295	RM12H11	RM6	CH11
12	.5	20	17	14.2	1	1495	RM12H16	RM6	CH16
15	.5	1.5	1.5	1.5	1	895	RM15N8X	RM6	CN8H
15	.5	4	3.8	3.6	1	995	RM15M9	RM6	CM9
15	.5	6.5	6	5.5	1	1095	RM15M13	RM6	CM13
15	.5	14.7	12.5	10.3	1	1295	RM15H11	RM6	CH11
15	.5	18.7	16	13.3	1	1495	RM15H16	RM6	CH16
24	.5	.9	.9	.9	1	895	RM24N8X	RM6	CN8H
24	.5	3	2.7	2.4	1	995	RM24M9	RM6	CM9
24	.5	5	5	5	1	1095	RM24M13	RM6	CM13
24	.5	11.7	10.2	8.7	1	1295	RM24H11	RM6	CH11
24	.5	14.7	12.7	10.7	1	1495	RM24H16	RM6	CH16
28	.5	1	1	1	1	895	RM28N8X	RM6	CN8H
28	.5	2.7	2.6	2.5	1	995	RM28M9	RM6	CM9
28	.5	5	5	5	1	1095	RM28M13	RM6	CM13
28	.5	10.5	9.2	8	1	1295	RM28H11	RM6	CH11
28	.5	14	12	10	1	1495	RM28H16	RM6	CH16
48	.5	.4	.4	.4	1	930	RM48N8T	RM6	CN8T
48	.5	1.6	1.4	1.2	1	1040	RM48M9	RM6	CM9
48	.5	3	3	3	1	1140	RM48M13	RM6	CM13
48	.5	6	5	4	1	1345	RM48H11	RM6	CH11
48	.5	8.5	7.2	5.5	1	1635	RM48H16	RM6	CH16
60	1	.25	.25	.25	1	960	RM60N8T	RM6	CN8T
60	1	1	.9	.8	1	1070	RM60M9	RM6	CM9
60	1	2.5	2.1	1.7	1	1170	RM60M13	RM6	CM13
60	1	5	4.1	3.3	1	1375	RM60H11	RM6	CH11
60	1	7	5.8	4.6	1	1645	RM60H16	RM6	CH16
120	1	.12	.12	.12	1	980	RM120N8T	RM6	CN8T
120	1	.5	.5	.4	1	1095	RM120M6	RM6	CM6
120	1	1.2	1.1	1	1	1200	RM120M13	RM6	CM13
120	1	2.5	2	1.6	1	1415	RM120H11	RM6	CH11
120	1	3.5	2.9	2.3	1	1690	RM120H16	RM6	CH16
125	1	.12	.12	.12	1	1000	RM125N8T	RM6	CN8T
125	1	.4	.4	.4	1	1115	RM125M6	RM6	CM6
125	1	1.2	1.1	1	1	1220	RM125M13	RM6	CM13
125	1	2.4	1.9	1.5	1	1435	RM125H11	RM6	CH11
125	1	3.4	2.8	2.3	1	1710	RM125H16	RM6	CH16

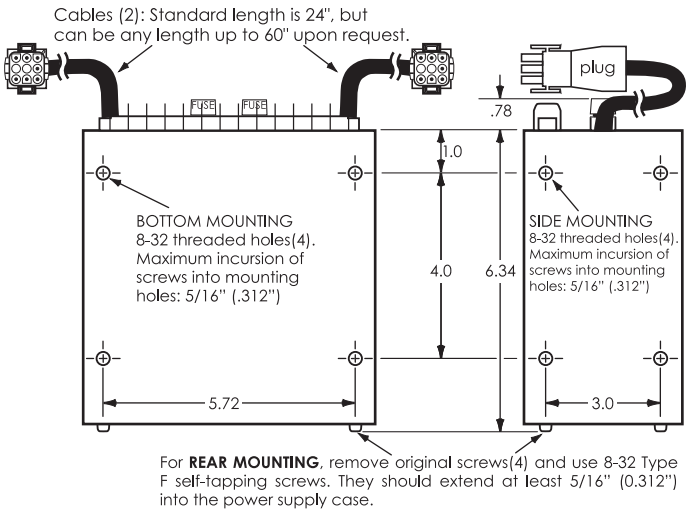
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INTEGRATION MODULE

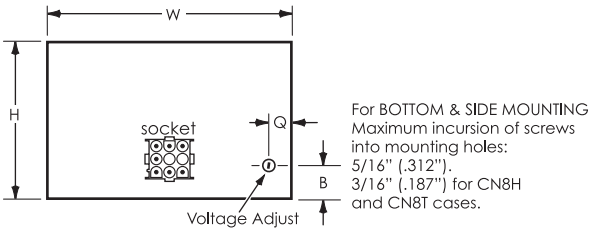


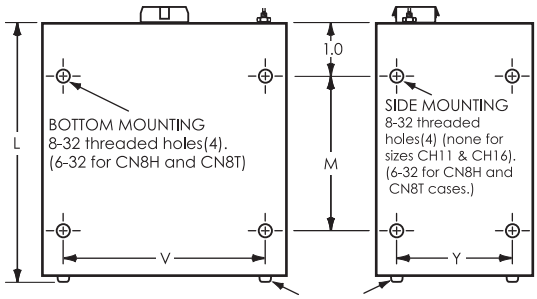


For **REAR MOUNTING**, remove original screws(4) and use 8-32 Type F self-tapping screws. They should extend at least 5/16" (0.312") into the power supply case.

Case Size RM6
Approx. Weight: 2 lb. 8 oz.

POWER SUPPLIES
(Two in each Modular Redundant System)





For **REAR MOUNTING**, remove original screws(4) and use 8-32 Type F self-tapping screws. They should extend at least 5/16" (0.312") into the power supply case.
For **REAR MOUNTING of CN8H and CN8T cases**, remove original 6-32 screws(4). These screws may then be used for mounting, provided they extend at least 1/4" (0.250") into the power supply case.

Case Size	L	W	H	M	V	Y	Q	B	Approx. Weight
CM6	6.59	5.12	3.44	4.0	4.5	3.0	.5	.75	4 lb. 4 oz.
CM9	9.25	5.12	3.44	6.0	4.5	3.0	.5	.75	7 lb. 4 oz.
CM13	13.25	5.12	3.44	10.0	4.5	3.0	.5	.75	11 lb.
CH11	11.25	7.37	5.12	8.0	6.75	4.56	1.12	1.25	18 lb. 4 oz.
CH16	16.00	7.37	5.12	11.0	6.75	4.56	1.12	1.25	26 lb.
CN8H	8.47	4.68	1.68	5.0	3.12	1.31	2.87	1.31	3 lb. 14 oz.
CN8T	8.47	3.84	1.68	5.0	3.12	1.31	2.87	1.31	3 lb. 2 oz.

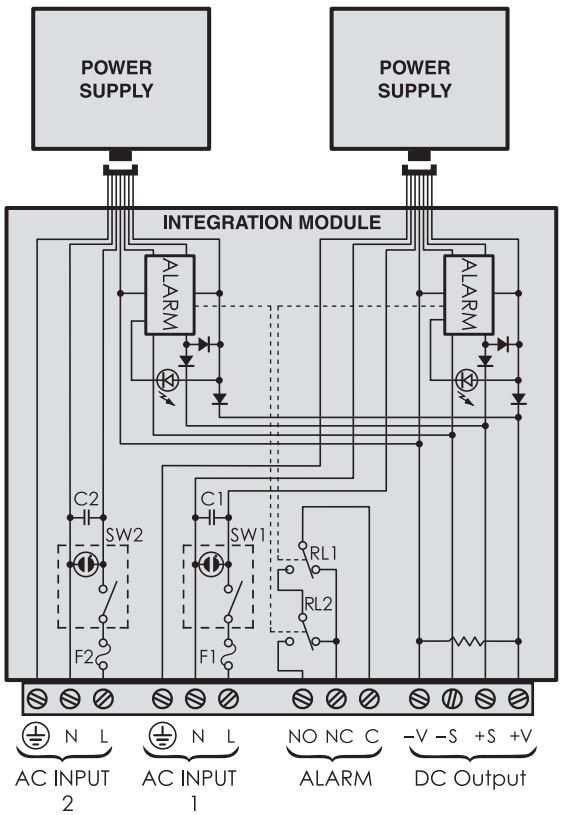
ACCESSORY MOUNTING KITS

- FOR WALL MOUNTING (See page 91 for illustration.)
These kits provide a way of mounting power supplies on a wall or panel when the other side of the mounting surface is inaccessible. Each kit consists of four aluminum brackets and four machine screws for fastening them to the power supply, effectively adding mounting flanges to the power supply.

For case sizes RM6, CM6, CM9, CM13, CH11, CH16
GB8 Mounting Kit *(#8-32 mounting holes)* $8
For case size CN8T
NP6 Mounting Kit *(#6-32 mounting holes)* $8
For case size CN8H
NP6L Mounting Kit *(#6-32 mounting holes)* $8
Model NP6L consists of two brackets 1.5" long and two 2.5" long brackets (to extend beyond heat sink).

- FOR DIN RAIL MOUNTING (See page 91 for illustration.)
For Rear Mounting
GR35DIN Mounting Kit $15.00
Fits on case sizes RM6, CM6, CM9.
(Can be used, but not recommended, on case size CM13.)
NPR35DIN Mounting Kit $15.00
Fits on case sizes CN8H, CN8T.
For Horizontal Mounting
CH35DIN Mounting Kit $15.00
Fits on case size RM6.
GH35DIN Mounting Kit $15.00
Fits on case sizes CM6, CM9, CM13.
NPH35DIN Mounting Kit $15.00
Fits on case sizes CN8H, CN8T.
For Vertical Mounting
NPV35DIN Mounting Kit $15.00
Fits on case sizes CN8H, CN8T.

Simplified Diagram for Modular Redundant Systems



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SWITCHING REGULATED

MODULAR REDUNDANT SYSTEMS

(Power Factor Correction and Universal Input)

AC-DC

single output

- Shipped Within 9 Days
- Five Year Warranty



These systems have the versatility to be mounted in a wide variety of ways - within a system cabinet, on a DIN rail or to a wall. Another benefit is that the three modules need not be mounted together, so that if a control panel is crowded, just the Integration Module may be mounted there and the power supplies mounted elsewhere.

For more Specifications and information, see pages 16 & 17.

System Description: Each Modular Redundant DC Power System consists of three units: two identical power supplies connected to an Integration Module by 24" long cables. The Integration Module includes the diodes for isolating the power supply outputs, AC input switches, input fuses, LED 'output present' indicators, failure alarm circuits, and the umbilical cables which plug into the power supplies. Connections for the AC inputs, redundant DC output and failure alarm relays are on a screw terminal strip.

Mounting: Each module has threaded mounting holes which permit mounting to a chassis, cabinet wall or bracket, or they may be used on a test bench or tabletop. To mount from the power supply side of the mounting surface or for DIN rail mounting, use an Accessory Mounting Kit (see page 27).

Interconnection: The Integration Module has two 24 inch long cables.

OPTIONS

Cable lengths: Although 24" is standard, any other length from 12" to 60" may be ordered as an option. To order, add suffix "C??" to model number and $60.00 to price. Replace the "??" with the cable length desired. For example, if you are ordering Model RM24WN8 with 4 foot (48") cables, the model number would be RM24WN8C48, and the price would be $1250.00+$60.00=$1310.00.

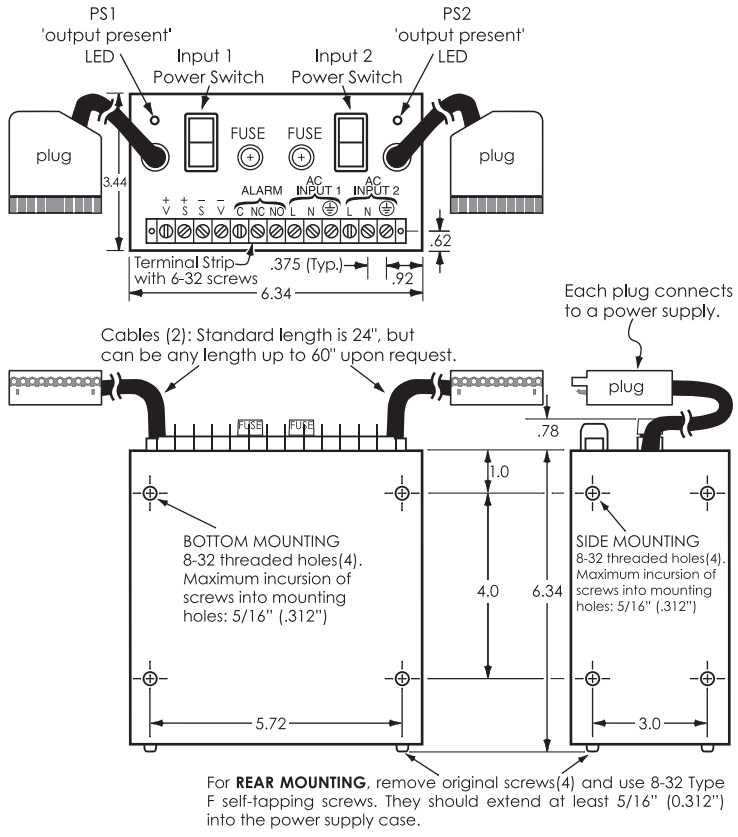
Simplified Diagram for Modular Redundant Systems: See page 25

Switching Regulated MODULAR REDUNDANT SYSTEMS

Nominal Output Voltage	Adjust Range ±V	Output Current Amps. at 40°C	55°C	71°C	Ripple mV (@ 25 MHz BW) RMS	P-P	($) Price	Model	Case sizes: Integration Module	Power Supplies (2)
3.3	.5	15.4	13	10.7	10	50	1100	RM3.3WN8A	RW6	WN8A
3.3	.5	24	20.5	16.8	10	50	1250	RM3.3WN8	RW6	WN8
5	.5	15.4	13	10.7	10	50	1100	RM5WN8A	RW6	WN8A
5	.5	24	20.5	16.8	10	50	1250	RM5WN8	RW6	WN8
8	.5	14.4	12	10	15	100	1100	RM8WN8A	RW6	WN8A
8	.5	23	19.5	16.1	15	100	1250	RM8WN8	RW6	WN8
10	.5	13.5	11.5	9.5	15	100	1100	RM10WN8A	RW6	WN8A
10	.5	21	18.5	15	15	100	1250	RM10WN8	RW6	WN8
12	.5	12.3	10.5	8.6	15	100	1100	RM12WN8A	RW6	WN8A
12	.5	20	17	14	15	100	1250	RM12WN8	RW6	WN8
13	.5	11.3	9.7	7.9	15	100	1100	RM13WN8A	RW6	WN8A
13	.5	18.4	15.7	12.9	15	100	1250	RM13WN8	RW6	WN8
15	.5	10.2	8.7	7.1	15	100	1100	RM15WN8A	RW6	WN8A
15	.5	16.5	14	11.5	15	100	1250	RM15WN8	RW6	WN8
20	.5	7.6	6.5	5.3	15	100	1100	RM20WN8A	RW6	WN8A
20	.5	12.7	10.7	8.8	15	100	1250	RM20WN8	RW6	WN8
24	.5	7.2	6.1	5	15	100	1100	RM24WN8A	RW6	WN8A
24	.5	11.5	9.8	8	15	100	1250	RM24WN8	RW6	WN8
28	.5	5.9	5	4.1	15	100	1100	RM28WN8A	RW6	WN8A
28	.5	9.5	8.1	6.7	15	100	1250	RM28WN8	RW6	WN8
32	.5	5.2	4.5	3.7	25	150	1100	RM32WN8A	RW6	WN8A
32	.5	8.3	7	5.8	25	150	1250	RM32WN8	RW6	WN8
40	.5	4.2	3.6	3	25	150	1100	RM40WN8A	RW6	WN8A
40	.5	6.8	5.8	4.8	25	150	1250	RM40WN8	RW6	WN8
48	.5	3.5	3	2.5	25	150	1100	RM48WN8A	RW6	WN8A
48	.5	5.7	4.9	4	25	150	1250	RM48WN8	RW6	WN8
55	1	3	2.5	2.1	50	150	1100	RM55WN8A	RW6	WN8A
55	1	4.5	3.8	3.1	50	150	1250	RM55WN8	RW6	WN8
60	1	2.8	2.3	1.9	50	150	1100	RM60WN8A	RW6	WN8A
60	1	4.2	3.5	2.9	50	150	1250	RM60WN8	RW6	WN8
70	1	2.4	2	1.7	67	200	1100	RM70WN8A	RW6	WN8A
70	1	3.6	3.1	2.5	67	200	1250	RM70WN8	RW6	WN8
80	1	2.1	1.7	1.4	67	200	1100	RM80WN8A	RW6	WN8A
80	1	3.1	2.6	2.2	67	200	1250	RM80WN8	RW6	WN8
90	1	1.8	1.5	1.3	100	300	1100	RM90WN8A	RW6	WN8A
90	1	2.8	2.4	2	100	300	1250	RM90WN8	RW6	WN8
100	1	1.7	1.4	1.2	150	450	1100	RM100WN8A	RW6	WN8A
100	1	2.5	2.1	1.8	150	450	1250	RM100WN8	RW6	WN8
110	1	1.5	1.3	1.1	150	450	1100	RM110WN8A	RW6	WN8A
110	1	2.3	1.9	1.6	150	450	1250	RM110WN8	RW6	WN8
120	1	1.4	1.2	1	150	450	1100	RM120WN8A	RW6	WN8A
120	1	2.1	1.8	1.5	150	450	1250	RM120WN8	RW6	WN8
125	1	1.3	1.1	0.9	150	450	1100	RM125WN8A	RW6	WN8A
125	1	2	1.7	1.4	150	450	1250	RM125WN8	RW6	WN8

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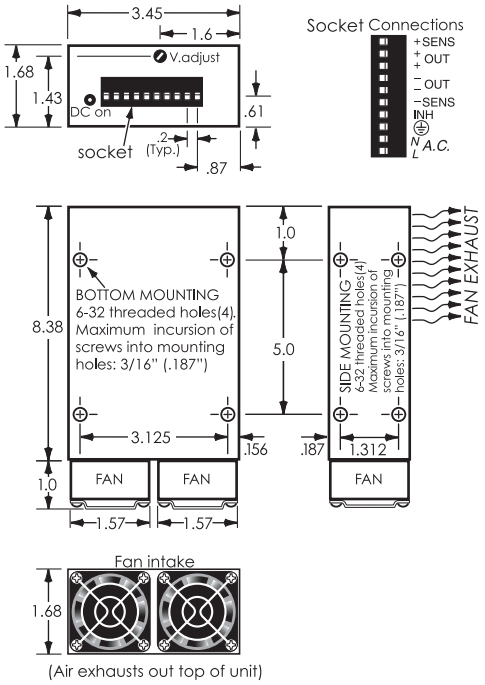
INTEGRATION MODULE



Case Size RW6
Approx. Weight: 3 lb. 4 oz.

POWER SUPPLIES

(Two in each Modular Redundant System)



(Air exhausts out top of unit)

Case Size	Number of fans on rear panel	Approx. Weight
WN8	2	2 lb. 2 oz.
WN8A	1 (centered on rear)	1 lb. 14 oz.

SPECIFICATIONS

Input Voltage: 90-265 VAC, 49-420 Hz, single phase.
(A separate set of AC input terminals is provided for each power supply, so that if two sources of AC input power are available, one may be used for each supply and so reduce the possibility of output dropout due to loss of input power.)

Power Factor: 0.99 typical at 115 VAC, 60Hz and full load. Complies with EN61000-3-2.

Drift: ±0.1% typical over 8 hours, after 30 minute warmup.

Output Monitoring: 'Output Present' green LEDs are located on each power supply (DC on) and on the Integration Module.

Inrush current: Cold start, (thermistor limiter) 20A peak @115 VAC; 40A peak @ 230 VAC.

Startup Time: 800 mS typical.

Remote Sensing: Compensates up to 0.5 volt drop per output line (1 volt for 55 to 125 volt models), within the limits of the output voltage adjustment range.

Holdup Time: 16 mS minimum.

Transient Response: 300 µS to return to ±1% of output setting. Maximum of ±3% output excursion following a load step change from 50% to 100%.

Switching Frequency: 100 kHz (Typical).

Isolation: Input to output, input to case; 500 VAC.
Output to case; 300 VAC.

Thermal Protection: Thermostat, self-resetting.

Cooling: Forced-air cooled; air enters rear of power supply and exits from top.

ACCESSORY MOUNTING KITS

- FOR WALL MOUNTING (See page 91 for illustration.)
These kits provide a way of mounting power supplies on a wall or panel when the other side of the mounting surface is inaccessible. Each kit consists of four aluminum brackets and four machine screws for fastening them to the power supply, effectively adding mounting flanges to the power supply.

For case size RW6
GB8 Mounting Kit *(#8-32 mounting holes)* $8
For case sizes WN8, WN8A
NP6 Mounting Kit *(#6-32 mounting holes)* $8

- FOR DIN RAIL MOUNTING (See page 91 for illustration.)
For Rear Mounting
GR35DIN Mounting Kit $15.00
Fits on case size RW6.
For Horizontal Mounting
CH35DIN Mounting Kit $15.00
Fits on case size RW6.
NPH35DIN Mounting Kit $15.00
Fits on case sizes WN8, WN8A.
For Vertical Mounting
NPV35DIN Mounting Kit $15.00
Fits on case sizes WN8, WN8A.

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single & dual tracking outputs

Rack Mounting

LINEAR REGULATED
AC-DC



(Meters and handles optional)

- Shipped Within 9 Days
- All Models U.L. Recognized
- Five Year Warranty

Acopian rack-mounting power supplies feature excellent regulation and ripple specifications in 101 models with outputs up to 150 volts and 60 amps. Metering and overvoltage protection are available as options. These power supplies are constructed in sturdy extruded aluminum assemblies designed expressly for mounting in standard 19″ wide RETMA cabinet racks. The front panels are finished in light gray enamel.

SPECIFICATIONS

Input Voltage: 105-125 VAC, 50-400 Hz, single phase.

Remote Voltage Sensing: Provision for sensing the output voltage across the load is a standard feature.

Polarity:

Single Output Models: Output is floating; either positive or negative terminal may be grounded or floated up to 300 volts above ground.
Dual Output Models: Positive output, common, negative output.

Temperature Coefficient:

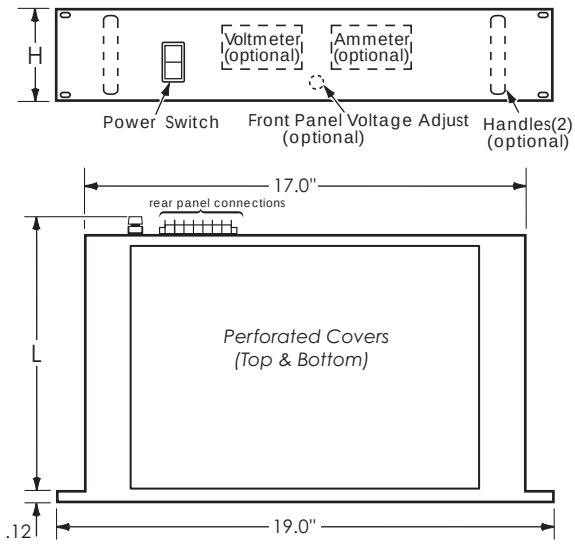
Single Output Models: 0.015%/°C (Typical).
Dual Output Models: 0.02%/°C (Typical).

Ambient Operating Temperature:

Single Output Models: –20 to +55°C.
Dual Output Models: –10 to +55°C.

Storage Temperature: –55 to +85°C.

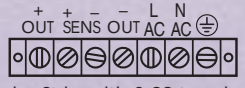
Overload/Short Circuit Protection: Foldback current limiting with automatic recovery.



Case Size	H	L	Approx. Weight
3P11	3½″	10⅞″	22 lb.
3P17	3½″	16 13/16″	38 lb.
5P12	5¼″	11 15/16″	28 lb.
5P17	5¼″	16 13/16″	53 lb.

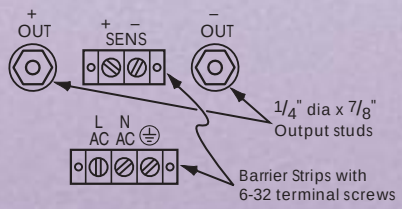
CONNECTIONS (Single Output models)**:**

Case sizes 3P11 and 5P12:

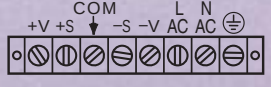


3P11 Barrier Strip with 6-32 terminal screws
5P12 Barrier Strip with 8-32 terminal screws

Case sizes 3P17 and 5P17:



CONNECTIONS (Dual Output models)**:**



Barrier Strip with 6-32 terminal screws

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SINGLE OUTPUT

Nominal Output Voltage	Adjust Range ± V	Output Current Amps. at 40°C	Output Current Amps. at 55°C	Regulation Load* ±%	Regulation Line* ±%	Ripple mV RMS	($) Price	Model	Case Size
1.5	.5	20	20	.005	.005	.25	$575	1.5PT20	3P11
1.5	.5	32	27	.005	.005	.25	$700	1.5PH32	5P12
1.5	.25	60	47	.05	.05	1	$1015	1.5PH60	5P17
2	.5	20	20	.005	.005	.25	$575	2PT20	3P11
2	.5	30	25	.005	.005	.25	$695	2PH30	5P12
3	.5	20	20	.005	.005	.25	$575	3PT20	3P11
3	.5	30	25	.005	.005	.25	$700	3PH30	5P12
3	.25	60	47	.05	.05	1	$1015	3PH60	5P17
3.3	.5	20	20	.005	.005	.25	$575	3.3PT20	3P11
3.3	.5	32	27	.005	.005	.25	$700	3.3PH32	5P12
3.3	.25	60	47	.05	.05	1	$1015	3.3PH60	5P17
5	.5	20	20	.005	.005	.25	$575	5PT20	3P11
5	.5	32	27	.005	.005	.25	$700	5PH32	5P12
5	.25	48	37	.05	.05	1	$875	5PT48	3P17
5	.25	60	47	.05	.05	1	$1015	5PH60	5P17
6	.5	20	20	.005	.005	.25	$575	6PT20	3P11
6	.5	28	23	.005	.005	.25	$700	6PH28	5P12
6	.25	47	36	.05	.05	1	$875	6PT47	3P17
6	.25	58	45	.05	.05	1	$1015	6PH58	5P17
7	.5	20	20	.005	.005	.25	$575	7PT20	3P11
8	.5	20	20	.005	.005	.25	$575	8PT20	3P11
8	.5	28	23	.005	.005	.25	$700	8PH28	5P12
8	.25	54	42	.05	.05	1	$1015	8PH54	5P17
9	.5	20	20	.005	.005	.25	$575	9PT20	3P11
9	.5	41	32	.05	.05	1	$875	9PT41	3P17
9	.5	52	41	.05	.05	1	$1015	9PH52	5P17
10	.5	20	20	.005	.005	.25	$575	10PT20	3P11
10	.5	25	20	.005	.005	.25	$700	10PH25	5P12
10	.5	50	39	.05	.05	1	$1015	10PH50	5P17
12	.5	17	17	.005	.005	.25	$575	12PT17	3P11
12	.5	22	22	.005	.005	.25	$700	12PH22	5P12
12	.5	33	26	.05	.05	1	$875	12PT33	3P17
12	.5	45	35	.05	.05	1	$1015	12PH45	5P17
13	.5	16	16	.005	.005	.25	$575	13PT16	3P11
13	.5	43	34	.05	.05	1	$1015	13PH43	5P17
14	.5	12	12	.005	.005	.25	$575	14PT12	3P11
15	.5	10	10	.005	.005	.25	$575	15PT10	3P11
15	.5	19	16	.005	.005	.25	$700	15PH19	5P12
15	.5	25	20	.05	.05	1	$875	15PT25	3P17
15	.5	40	31	.05	.05	1	$1015	15PH40	5P17
16	.5	10	10	.005	.005	.25	$575	16PT10	3P11
18	.5	10	10	.005	.005	.25	$575	18PT10	3P11
18	.5	18	15	.005	.005	.25	$700	18PH18	5P12
18	.5	24	19	.05	.05	1	$875	18PT24	3P17
18	.5	36	28	.05	.05	1	$1015	18PH36	5P17
20	.5	10	10	.005	.005	.25	$575	20PT10	3P11
20	.5	16	14	.005	.005	.25	$700	20PH16	5P12
20	.5	23	18	.05	.05	1	$875	20PT23	3P17
20	.5	32	25	.05	.05	1	$1015	20PH32	5P17
22	.5	10	10	.005	.005	.25	$575	22PT10	3P11

*or 2 mv, whichever is greater.

Nominal Output Voltage	Adjust Range ± V	Output Current Amps. at 40°C	Output Current Amps. at 55°C	Regulation Load ±%	Regulation Line ±%	Ripple mV RMS	($) Price	Model	Case Size
24	.5	10	10	.005	.005	.25	$575	24PT10	3P11
24	.5	15	13	.005	.005	.25	$700	24PH15	5P12
24	.5	20	16	.05	.05	1	$875	24PT20	3P17
24	.5	30	23	.05	.05	1	$1015	24PH30	5P17
25	.5	10	10	.005	.005	.25	$575	25PT10	3P11
26	.5	10	10	.005	.005	.25	$575	26PT10	3P11
28	.5	10	10	.005	.005	.25	$575	28PT10	3P11
28	.5	14	12	.005	.005	.25	$700	28PH14	5P12
28	.5	19	15	.05	.05	1	$875	28PT19	3P17
28	.5	28	22	.05	.05	1	$1015	28PH28	5P17
30	.5	10	10	.005	.005	.25	$575	30PT10	3P11
30	.5	14	12	.005	.005	.25	$700	30PH14	5P12
32	.5	5	5	.005	.005	.25	$505	32PT5	3P11
32	.5	10	10	.005	.005	.25	$655	32PT10	5P12
34	.5	5	5	.005	.005	.25	$515	34PT5	3P11
34	.5	10	10	.005	.005	.25	$660	34PT10	5P12
35	.5	5	5	.005	.005	.25	$525	35PT5	3P11
35	.5	10	10	.005	.005	.25	$680	35PT10	5P12
36	.5	5	5	.005	.005	.25	$530	36PT5	3P11
36	.5	10	10	.005	.005	.25	$690	36PT10	5P12
38	.5	5	5	.005	.005	.25	$540	38PT5	3P11
38	.5	10	10	.005	.005	.25	$695	38PT10	5P12
40	.5	5	5	.005	.005	.25	$540	40PT5	3P11
40	.5	10	10	.005	.005	.25	$710	40PT10	5P12
45	.5	5	5	.005	.005	.25	$550	45PT5	3P11
45	.5	10	10	.005	.005	.25	$730	45PT10	5P12
48	.5	5	5	.005	.005	.25	$550	48PT5	3P11
48	.5	10	10	.005	.005	.25	$730	48PT10	5P12
48	.5	15	12	.005	.005	.25	$905	48PT15	5P17
50	.5	5	5	.005	.005	.25	$550	50PT5	3P11
50	.5	10	10	.005	.005	.25	$730	50PT10	5P12
55	.5	5	3.8	.005	.005	.25	$560	55PT5	3P11
55	.5	8	6	.005	.005	.25	$745	55PT8	5P12
60	.5	5	3.8	.005	.005	.25	$565	60PT5	3P11
60	.5	8	6	.005	.005	.25	$760	60PT8	5P12
75	1	4	3	.01	.01	1	$575	75PT4	3P11
75	1	5.6	4.2	.01	.01	1	$790	75PT5	5P12
90	1	3.3	2.5	.01	.01	1	$590	90PT3	3P11
90	1	4.4	3.3	.01	.01	1	$795	90PT4	5P12
100	1	3	2.2	.01	.01	1	$600	100PT3	3P11
100	1	4	3	.01	.01	1	$810	100PT4	5P12
120	1	2.5	1.8	.01	.01	1	$610	120PT2	3P11
120	1	3.5	2.6	.01	.01	1	$820	120PT3	5P12
125	1	2.5	1.8	.01	.01	1	$620	125PT2	3P11
125	1	3.5	2.6	.01	.01	1	$835	125PT3	5P12
150	1	2.3	1.7	.01	.01	1	$620	150PT2	3P11
150	1	3	2.2	.01	.01	1	$835	150PT3	5P12

DUAL TRACKING OUTPUTS

Nominal Output Voltages	Adjust Range ± V	Amps. per Output at 40°C	Amps. per Output at 55°C	Regulation Load ±%	Regulation Line ±%	Ripple mV RMS	($) Price	Model	Case Size
±12	.5	7	5.6	.1	.1	1.5	$590	PD12-700	3P11
±12	.5	9	7.2	.1	.1	1.5	$710	PD12-900	5P12
±15	.5	7	5.6	.1	.1	1.5	$590	PD15-700	3P11
±15	.5	9	7.2	.1	.1	1.5	$710	PD15-900	5P12

OPTIONS

EXAMPLE: The Model 5PT20 equipped with all options is designated as the Model V5PT20AFHMP-230. (List suffix letters in alphabetical sequence.)

Overvoltage Protection: An internally installed and preset overvoltage protector is available. On dual output models, if either output fails, both outputs are 'crowbarred'. To order, add prefix "V" to the model number and increase price as follows:

Outputs of	1.5-70V	75-150V
Case size 3P11	$35.00	$45.00
Other case sizes	$85.00	$95.00

Front Panel Voltage Adjustment: Standard models have a voltage adjustment located at the rear. A voltage control mounted on the front panel is available as an option. To order, add suffix "P" to the model number and $15.00 to price.

Handles: Add suffix "H" to model number and $30.00 to price.

Terminal Strip Cover: Clips on. To order, add suffix "M" to model number and $5.00 to price.

Metering (Single Output Models):
Ammeter: Add suffix "A" to model number and $60.00 to price.
Voltmeter: Add suffix "F" to model number and $60.00 to price.

Metering (Dual Output Models):
Ammeters: One for each output. Add suffix "A" to model number and $120.00 to price. "A" and "F" options cannot be combined in one power supply.
Voltmeters: One for each output. Add suffix "F" to model number and $120.00 to price. "A" and "F" options cannot be combined in one power supply.
Voltmeter and Ammeter: Each with switch for selecting output to be monitored. Add suffix "G" to model number and $170.00 to price.

230 Volt Input: For operation on inputs of 210 to 250 VAC, 50-400 Hz. Add suffix "–230" to model number and $40.00 to price. The "–230" option requires two additional days.

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wide adjust output

Rack Mounting

LINEAR REGULATED
AC-DC
(fixed & adjustable current limiting)

- Shipped Within 9 Days
- U.L. Recognized
- Five Year Warranty



(Meters and handles optional)

Similar to the rack mounting power supplies listed on pages 28 and 29, but with broadened output voltage ranges. All models may be programmed through their voltage ranges by means of external resistance. Models with adjustable current limiting have a constant-voltage/constant-current crossover characteristic, and so may be used as constant current sources.

SPECIFICATIONS

Input Voltage: 105-125 VAC, 50-400 Hz, single phase.

Regulation, Ripple (in constant voltage mode):
Line Regulation: ±0.005% or 2 mV, whichever is greater.
Load Regulation: ±0.005% or 2 mV, whichever is greater.
Ripple: 0.25 mV rms.

Regulation, Ripple (in constant current mode):
Line Regulation: ±0.1% or 2 mA.
Load Regulation: ±0.2% or 5 mA.
Ripple: 0.1% rms.

Remote Voltage Sensing: Provision for sensing the output voltage across the load, to compensate voltage drops in output wiring, is a standard feature.

Remote Voltage Programming: The output voltage may be controlled by means of external resistance connected in series with the – S lead.

Voltage Programming Coefficient: See table. Calibration tolerance, ± 2%.

Current Limiting/Programming: Models with fixed current limiting have a rolloff characteristic with automatic recovery. All others have current limiting with a constant-voltage/constant-current crossover characteristic.

Polarity: Output is floating; either positive or negative terminal may be grounded or floated up to 300 volts above ground.

Controls: Coarse and fine voltage adjustments, and the current limit adjustment, are located at the rear of the assembly.

Temperature Coefficient (in constant voltage mode): 0.02%/°C (Typical).

Ambient Operating Temperature: –20 to +71°C.

Storage Temperature: –55 to +85°C.

OPTIONS

Overvoltage Protection: An internally mounted overvoltage protection circuit, set approximately 20% above the maximum output voltage rating of the supply, is available on all models. To order, add prefix "V" to the model number, and increase standard price as follows:

Maximum output of	6-50V	100V
All case sizes except 5P17	$35.00	$45.00
Case size 5P17	$85.00	

Remote Current Limiting Adjustment: All models having numbers beginning with the letter P have a built in current limit control. Provision for control of the current limit setting by adjustment of an external resistance is available as an option. To order, add the prefix letter "E" to the model number, and add $25.00 to the standard price.

The current limit setting is inversely related to resistance. Use a 200 ohm, ½ W potentiometer.

Ammeter: Add suffix "A" to model number and $60.00 to price.

Voltmeter: Add suffix "F" to model number and $60.00 to price.

Handles: Add suffix "H" to model number and $30.00 to price.

Terminal Strip Cover: Clips on. To order, add suffix "M" to model number and $5.00 to price.

Front Panel Voltage Controls: For voltage controls (coarse and fine) mounted on the front panel, instead of the standard screwdriver-slot adjustments at the rear, add suffix "P" to the model number and $25.00 to price.

Front Panel Current Limiting Control: For adjustable current limiting models, a current limit control can be mounted on the front panel. Add suffix "Y" to the model number and $15.00 to price.

230 Volt Input: For operation on inputs of 210 to 250 VAC, 50-400 Hz. Add suffix "–230" to model number and $40.00 to price. The "–230" option requires two additional days.

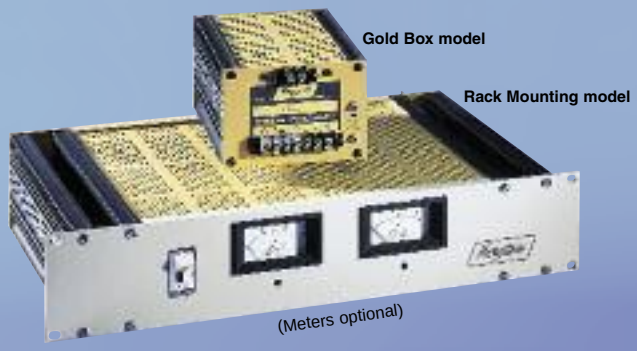
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Power Supplies Programmable with a 0-10 Vdc Control Voltage

These power supplies have the broad adjustment capability required for analog instrumentation and circuitry, process controls, basic research, and similar applications.

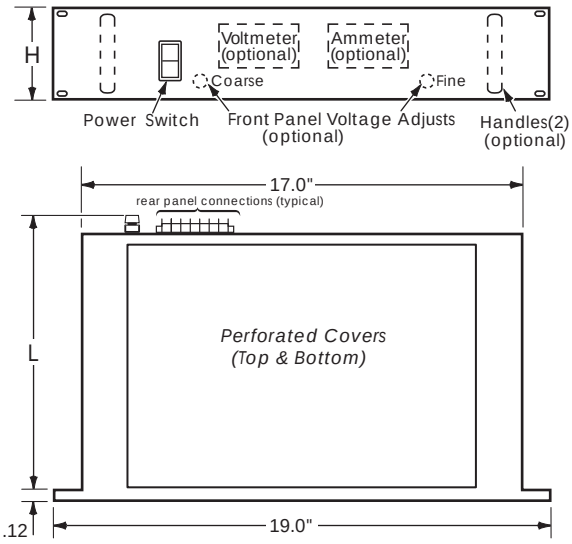
The output voltage may be manually controlled either at the power supply or remotely, or it may be programmed with the analog output from a PLC or digital-to-analog converter.

See pages 60 and 61



Output Voltage Range	Output Current Amps. at 40°C	55°C	71°C	Voltage Prgmg. Coeff. (Ω/V)	Case Size	Voltage Programmable Fixed Current Limiting Model	Price($)	Voltage Programmable Adjust. Current Limiting Model	Price($)
0-6	10.0	8.0	6.0	820	3P11	A06PX10	$575	P06PX10	$620
0-6	16.0	12.8	9.6	820	5P12	A06PX16	$705	P06PX16	$750
0-6*	23.0	18.4	13.8	820	3P17	A06PX23	$875	P06PX23	$920
0-6*	30.0	24.0	18.0	820	5P17	A06PX30	$1015	P06PX30	$1060
0-15	7.0	5.6	4.2	330	3P11	A015PX7	$575	P015PX7	$620
0-15	10.0	8.0	6.0	330	5P12	A015PX10	$705	P015PX10	$750
0-15*	13.0	10.4	7.8	330	3P17	A015PX13	$875	P015PX13	$920
0-30	4.0	3.2	2.4	160	3P11	A030PX4	$575	P030PX4	$620
0-30	5.0	4.0	3.0	160	5P12	A030PX5	$705	P030PX5	$750
0-30*	7.0	5.6	4.2	160	3P17	A030PX7	$875	P030PX7	$920
0-30*	9.0	7.2	5.4	160	5P17	A030PX9	$1015	P030PX9	$1060
0-50	2.4	1.9	1.5	1000	3P11	A050PX2	$575	P050PX2	$620
0-50	3.0	2.4	1.8	1000	5P12	A050PX3	$705	P050PX3	$750
0-50*	5.0	4.0	3.0	1000	5P17	A050PX5	$1015	P050PX5	$1060
0-100*	1.2	.9	.7	500	3P11	A0100PX1.2	$635	P0100PX1.2	$680
0-100*	1.5	1.2	.9	500	5P12	A0100PX1.5	$820	P0100PX1.5	$865

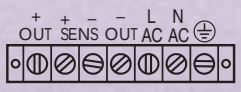
*Not U.L. recognized when this catalog was published.



Case Size	H	L	Approx. Weight
3P11	3½″	10⅞″	16 lb.
3P17	3½″	16 13/16″	26 lb.
5P12	5¼″	11 15/16″	20 lb.
5P17	5¼″	16 13/16″	30 lb.

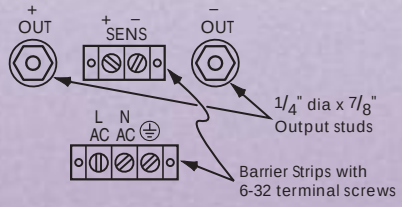
CONNECTIONS:

Case sizes 3P11 and 5P12:



3P11 Barrier Strip with 6-32 terminal screws
5P12 Barrier Strip with 8-32 terminal screws

Case sizes 3P17 and 5P17:



single output

Mini Encapsulated - PC Board mounting

LINEAR REGULATED
AC-DC





- Shipped Within 3 Days
- All Models U.L. Recognized
- One Year Warranty

Conserve space with mini-modules as small as 2.3″ x 1.8″ x 1.0″. Models with outputs ranging from 1 to 75 volts, and from 30 mA to 2.5 amps are available. All feature excellent regulation and ripple parameters, and are short circuit protected.

Rugged encapsulated construction and generously derated components assure years of reliable operation. PC Board mounting mini-modules are also available with dual outputs - see page 34.

STANDARD FEATURES

- May be used in series
- No derating or heat sinking required
- Short circuit protected
- Small, lightweight

SPECIFICATIONS

Input Voltage: 105-125 VAC, 47 to 420 Hz, single phase.

Output Voltage Setting: Output is factory preset to within ±2% (1 to 9 volt models) or ±1% (10 to 75 volt models) of the nominal output voltage.

T/C terminal (Output Voltage Trim Adjustment): The T/C terminal can be used to trim the output more precisely to the nominal voltage rating by connecting an external resistor from the T/C terminal to either the + or – terminal.

Polarity: Output is floating. Either positive or negative terminal may be grounded.

Ambient Operating Temperature: –20 to +71°C. No derating required.

Storage Temperature: –55 to +85°C.

Temperature Coefficient: From 9 to 75 volts, typically 0.015%/°C; 1 to 8 volts, 0.03%/°C.

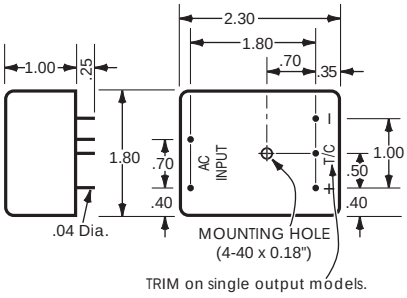
Impedance: 0.07 ohms at 1 kHz and 0.2 ohms at 10 kHz (approx.).

Weight:
7 oz. (Case size ES-10)
13 oz. (Case size EL-10)
1 lb. 3 oz. (Case size EL-13)
1 lb. 15 oz. (Case size EL-20)

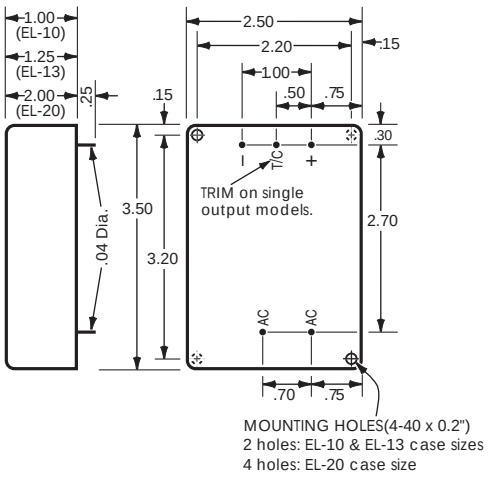
Mounting: May be mounted on printed circuit board or in socket (see page 34).

OPTIONS

230 Volt Input: All models can be alternately furnished for operation on an input of 210 to 250 VAC, 47-420 Hz. To order, add suffix "–230" to model number and $10.00 to price. Requires two additional days.



Case Size ES-10



Case Sizes EL-10, EL-13, and EL-20

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SINGLE OUTPUT, FOR PC BOARD MOUNTING

(For Mini Encapsulated power supplies with higher wattage outputs than those shown below, see pages 38-39.)

Nominal Output Voltage	Output Current Amps.	Regulation Load ±%	Regulation Line ±%	Ripple mV RMS	($) Price	Model	Case Size
1	.250	.1	.05	0.5	67	1E25	ES-10
1	.500	.2	.05	1	86	1E50A	EL-10
1.5	.250	.1	.05	0.5	67	1.5E25	ES-10
1.5	.500	.2	.05	1	86	1.5E50A	EL-10
1.5	1.0	.3	.05	1	112	1.5E100	EL-13
1.5	2.5	.3	.05	1	149	1.5E250	EL-20
2	.200	.1	.05	0.5	67	2E20	ES-10
2	.400	.2	.05	1	86	2E40A	EL-10
3	.250	.1	.05	0.5	67	3E25	ES-10
3	.500	.2	.05	1	86	3E50A	EL-10
3.3	.250	.05	.05	0.5	67	3.3E25	ES-10
3.3	.500	.1	.05	1	86	3.3E50A	EL-10
3.3	1.0	.3	.05	1	112	3.3E100	EL-13
3.3	2.0	.3	.05	1	132	3.3E200	EL-20
4	.200	.05	.05	0.5	67	4E20	ES-10
4	.400	.1	.05	1	86	4E40A	EL-10
5	.250	.05	.05	0.5	67	5E25	ES-10
5	.500	.1	.05	1	79	5E50A	EL-10
5	1.0	.15	.05	1	97	5E100	EL-13
5	1.5	.15	.05	1	112	5E150	EL-13
5	2.0	.15	.05	1	132	5E200	EL-20
5	2.5	.15	.05	1	149	5E250	EL-20
6	.200	.05	.05	0.5	67	6E20	ES-10
6	.400	.1	.05	1	86	6E40A	EL-10
6	.550	.2	.05	1	102	6E55	EL-10
6	1.0	.2	.05	1	120	6E100	EL-13
6	1.75	.15	.05	1	143	6E175	EL-20
7	.170	.05	.05	0.5	67	7E17	ES-10
7	.340	.1	.05	1	86	7E34A	EL-10
7	.450	.2	.05	1	102	7E45	EL-10
7	.900	.2	.05	1	120	7E90	EL-13
7	1.15	.15	.05	1	143	7E115	EL-20
8	.150	.05	.05	0.5	67	8E15	ES-10
8	.300	.1	.05	1	86	8E30A	EL-10
8	.700	.2	.05	1	120	8E70	EL-13
8	1.1	.15	.05	1	143	8E110	EL-20
9	.130	.05	.05	0.5	67	9E13	ES-10
9	.260	.1	.05	1	86	9E26A	EL-10
9	.450	.15	.05	1	102	9E45	EL-10
9	.850	.15	.05	1	120	9E85	EL-13
9	1.5	.15	.05	1	149	9E150	EL-20
10	.120	.02	.02	0.5	56	10E12	ES-10
10	.240	.05	.05	1	86	10E24A	EL-10
10	.400	.15	.05	1	102	10E40	EL-10
10	.750	.15	.05	1	120	10E75	EL-13
10	1.2	.1	.05	1	149	10E120	EL-20
11	.110	.02	.02	0.5	67	11E11	ES-10
11	.220	.05	.05	1	86	11E22A	EL-10
11	.350	.15	.05	1	102	11E35	EL-10
11	.600	.15	.05	1	120	11E60	EL-13
11	1.0	.1	.05	1	149	11E100	EL-20
12	.100	.02	.02	0.5	56	12E10	ES-10
12	.150	.05	.05	0.5	74	12E15	ES-10
12	.200	.05	.05	1	86	12E20A	EL-10
12	.400	.1	.05	1	102	12E40	EL-10
12	.700	.1	.05	1	126	12E70	EL-13
12	1.2	.15	.05	1	149	12E120	EL-20
13	.100	.02	.02	0.5	67	13E10	ES-10
13	.200	.05	.05	1	86	13E20A	EL-10
13	.350	.1	.05	1	102	13E35	EL-10
13	1.0	.1	.05	1	149	13E100	EL-20
14	.100	.02	.02	0.5	67	14E10	ES-10
14	.200	.05	.05	1	86	14E20A	EL-10
14	.300	.1	.05	1	102	14E30	EL-10
14	.500	.1	.05	1	120	14E50	EL-13
14	1.0	.1	.05	1	149	14E100	EL-20
15	.100	.02	.02	0.5	56	15E10	ES-10
15	.150	.05	.05	0.5	74	15E15	ES-10
15	.200	.05	.05	1	86	15E20A	EL-10
15	.400	.1	.05	1	102	15E40	EL-10
15	.600	.1	.05	1	120	15E60	EL-13
15	1.0	.1	.05	1	149	15E100	EL-20
16	.080	.02	.02	0.5	67	16E08	ES-10
16	.160	.05	.05	1	86	16E16A	EL-10
16	.350	.1	.05	1	109	16E35	EL-10
16	.500	.1	.05	1	126	16E50	EL-13
16	.900	.1	.05	1	149	16E90	EL-20
17	.070	.02	.02	0.5	67	17E07	ES-10
17	.140	.05	.05	1	86	17E14A	EL-10
17	.450	.1	.05	1	126	17E45	EL-13
17	.750	.1	.05	1	149	17E75	EL-20

Nominal Output Voltage	Output Current Amps.	Regulation Load ±%	Regulation Line ±%	Ripple mV RMS	($) Price	Model	Case Size
18	.060	.02	.02	0.5	56	18E06	ES-10
18	.120	.05	.05	1	86	18E12A	EL-10
18	.270	.1	.05	1	102	18E27	EL-10
18	.400	.1	.05	1	120	18E40	EL-13
18	.550	.1	.05	1	143	18E55	EL-20
19	.060	.02	.02	0.5	67	19E06	ES-10
19	.120	.05	.05	1	86	19E12A	EL-10
19	.250	.1	.05	1	102	19E25	EL-10
19	.400	.1	.05	1	120	19E40	EL-13
19	.700	.1	.05	1	149	19E70	EL-20
20	.060	.02	.02	0.5	67	20E06	ES-10
20	.120	.05	.05	1	86	20E12A	EL-10
20	.200	.1	.05	1	102	20E20	EL-10
20	.400	.1	.05	1	120	20E40	EL-13
20	.700	.1	.05	1	149	20E70	EL-20
21	.060	.02	.02	0.5	67	21E06	ES-10
21	.120	.05	.05	1	86	21E12A	EL-10
21	.175	.1	.05	1	102	21E18	EL-10
21	.375	.1	.05	1	120	21E38	EL-13
21	.600	.1	.05	1	143	21E60	EL-20
22	.050	.02	.02	0.5	67	22E05	ES-10
22	.100	.05	.05	1	86	22E10A	EL-10
22	.150	.1	.05	1	102	22E15	EL-10
22	.300	.1	.05	1	120	22E30	EL-13
22	.500	.1	.05	1	143	22E50	EL-20
23	.050	.02	.02	0.5	67	23E05	ES-10
23	.100	.05	.05	1	86	23E10A	EL-10
23	.200	.1	.05	1	102	23E20	EL-10
23	.300	.1	.05	1	120	23E30	EL-13
23	.600	.1	.05	1	149	23E60	EL-20
24	.050	.02	.02	0.5	56	24E05	ES-10
24	.100	.05	.05	1	86	24E10A	EL-10
24	.200	.1	.05	1	102	24E20	EL-10
24	.350	.1	.05	1	126	24E35	EL-13
24	.600	.1	.05	1	149	24E60	EL-20
25	.050	.02	.02	0.5	67	25E05	ES-10
25	.100	.05	.05	1	86	25E10A	EL-10
25	.190	.1	.05	1	102	25E19	EL-10
25	.325	.1	.05	1	126	25E33	EL-13
25	.550	.1	.05	1	149	25E55	EL-20
26	.040	.02	.02	0.5	67	26E04	ES-10
26	.080	.05	.05	1	86	26E08A	EL-10
26	.170	.1	.05	1	102	26E17	EL-10
26	.300	.1	.05	1	120	26E30	EL-13
26	.450	.1	.05	1	143	26E45	EL-20
27	.040	.02	.02	0.5	67	27E04	ES-10
27	.080	.05	.05	1	86	27E08A	EL-10
27	.160	.1	.05	1	102	27E16	EL-10
27	.300	.1	.05	1	120	27E30	EL-13
27	.500	.1	.05	1	149	27E50	EL-20
28	.040	.02	.02	0.5	56	28E04	ES-10
28	.080	.05	.05	1	86	28E08A	EL-10
28	.150	.1	.05	1	102	28E15	EL-10
28	.300	.1	.05	1	126	28E30	EL-13
28	.500	.1	.05	1	149	28E50	EL-20
30	.080	.02	.02	1	90	30E08A	EL-13
32	.070	.02	.02	1	90	32E07A	EL-13
34	.060	.02	.02	1	90	34E06A	EL-13
35	.050	.02	.02	1	90	35E05A	EL-13
36	.050	.02	.02	1	90	36E05A	EL-13
38	.040	.02	.02	1	90	38E04A	EL-13
40	.030	.02	.02	1	90	40E03A	EL-13
40	.060	.02	.02	1	112	40E06A	EL-13
42	.030	.02	.02	1	90	42E03A	EL-13
44	.030	.02	.02	1	90	44E03A	EL-13
45	.030	.02	.02	1	90	45E03A	EL-13
48	.030	.02	.02	1	90	48E03A	EL-13
48	.050	.02	.02	1	112	48E05A	EL-13
50	.030	.02	.02	1	90	50E03A	EL-13
50	.050	.02	.02	1	112	50E05A	EL-13
55	.040	.02	.02	1	112	55E04A	EL-13
60	.050	.02	.02	1	112	60E05A	EL-13
65	.050	.02	.02	1	112	65E05A	EL-13
70	.040	.02	.02	1	112	70E04A	EL-13
75	.030	.02	.02	1	112	75E03A	EL-13
185	.025	Unregulated		2V	56	NX-25A	EL-10
185	.050	Unregulated		3.5V	79	NX-50	EL-13

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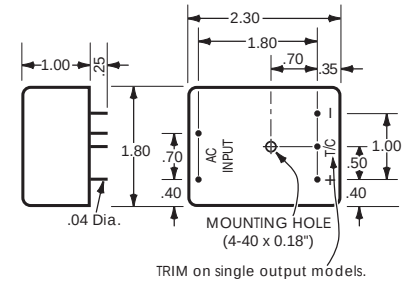
dual tracking outputs

Mini Encapsulated - PC Board mounting

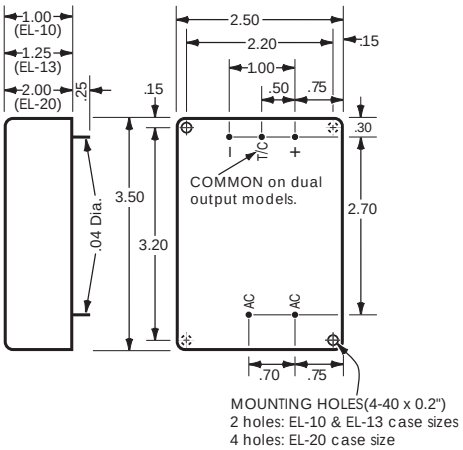
LINEAR REGULATED
AC-DC



- Shipped Within 3 Days
- All Models U.L. Recognized
- One Year Warranty



Case Size ES-10



Case Sizes EL-10, EL-13, and EL-20

These dual output mini-modules are compact and convenient sources of the voltages required to power operational amplifiers and related circuits. They may be mounted directly on printed circuit board assemblies, simplifying system layout and minimizing the connectors and wiring required.

STANDARD FEATURES

- May be used in series
- No derating or heat sinking required
- Short circuit protected

SPECIFICATIONS

Input Voltage: 105-125 VAC, 47 to 420 Hz, single phase.

Output Voltage Setting: Each output is factory preset to within ±2% (5 volt models) or ±1% (10, 12 and 15 volt models) of the nominal output voltage.

T/C terminal: The T/C terminal is the output Common.

Polarity: Positive output, common, and negative output.

Ambient Operating Temperature: –20 to +71°C.
No derating required.

Storage Temperature: –55 to +85°C.

Temperature Coefficient: 10, 12 and 15 volt models, typically 0.015%/°C; 5 volt models, 0.03%/°C.

Impedance: 0.07 ohms at 1 kHz and 0.2 ohms at 10 kHz (approx.).

Weight: 7 oz. (Case size ES-10)
13 oz. (Case size EL-10)
1 lb. 3 oz. (Case size EL-13)
1 lb. 15 oz. (Case size EL-20)

Mounting: May be mounted on printed circuit board or in socket (see below).

OPTIONS

230 Volt Input: All models can be alternately furnished for operation on an input of 210 to 250 VAC, 47-420 Hz. To order, add suffix "–230" to model number and $10.00 to price. Requires two additional days.

DUAL TRACKING OUTPUTS

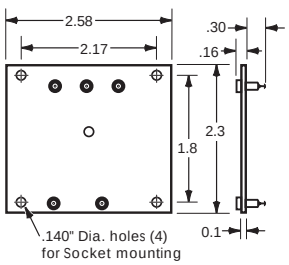
Nominal Output Voltages	Amps. per Output	Regulation Load ± %	Regulation Line ± %	Ripple mV RMS	($) Price	Model	Case Size
±5	.150	.1	.05	1.5	90	D5-15	EL-10
±5	.250	.1	.05	1.5	112	D5-25	EL-10
±5	.500	.1	.05	1.5	155	D5-50	EL-20
±10	.200	.05	.05	1	102	D10-20	EL-10
±10	.300	.05	.05	1	132	D10-30	EL-13
±10	.400	.1	.05	1	155	D10-40	EL-20
±12	.025	.1	.05	1	56	D12-03	ES-10
±12	.050	.1	.05	1	67	D12-05	ES-10
±12	.100	.05	.05	1	79	D12-10A	EL-10
±12	.150	.05	.05	1	90	D12-15A	EL-10
±12	.200	.05	.05	1	102	D12-20	EL-10
±12	.300	.05	.05	1	120	D12-30	EL-13
±12	.350	.05	.05	1	132	D12-35	EL-13
±12	.500	.1	.05	1	155	D12-50	EL-20
±15	.025	.1	.05	1	56	D15-03	ES-10
±15	.050	.1	.05	1	67	D15-05	ES-10
±15	.100	.05	.05	1	79	D15-10A	EL-10
±15	.150	.05	.05	1	90	D15-15A	EL-10
±15	.200	.05	.05	1	102	D15-20	EL-10
±15	.300	.05	.05	1	120	D15-30	EL-13
±15	.350	.05	.05	1	132	D15-35	EL-13
±15	.500	.1	.05	1	155	D15-50	EL-20

ACCESSORY SOCKETS:

For use with PC board mounting Mini Linears and PC board mounting DC-DC Converters.

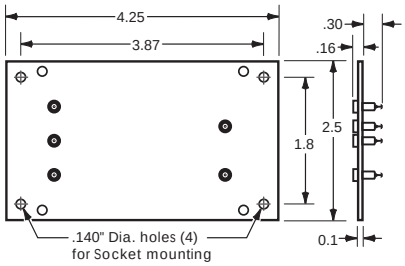
Each of these sockets has a sturdy phenolic base with gold plated teflon-insulated contacts.

Model ES-1
$20



For case sizes ES-10 and ESC-10

Model EL-1
$20



For case sizes EL-10, EL-13, EL-20 and ELC-10

Online Ordering and Instant Quotes for ALL Acopian power supplies at ***www.acopian.com***
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NEMA 4X Enclosed Power Supplies



We can put many of our power supplies in NEMA enclosures. Shown here is one of our Mini power supplies in a NEMA enclosure.

NEMA 4X enclosures provide protection against accidental contact with dangerous voltages, and protect the power supply inside from the ingress of dirt, dust, lint, and other substances. Although they do not have an airtight seal, they provide substantial protection from dripping and splashing water and other liquids.

Please contact Acopian for more information. **Call 800-523-9478.**

Acopian

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Easton, PA

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single & dual tracking outputs

Mini Encapsulated - with screw terminals

LINEAR REGULATED
AC-DC



- Shipped Within 3 Days
- All Models U.L. Recognized
- One Year Warranty

Although small in size, these mini-modules offer high performance at modest prices. All models, with series regulated outputs ranging from 1 to 75 volts and as high as 2.5 amps, may be mounted in an area only 3.5″ x 2.5″. Dual output models are available with the ratings commonly required for driving op amps and other balanced loads. Terminal strip input/output connections eliminate all need for sockets or soldering. Short circuit protection, encapsulated construction, and conservative design assure long term reliability.

STANDARD FEATURES

- May be used in series
- No derating or heat sinking required
- Short circuit protected
- Small, lightweight

SPECIFICATIONS

Input Voltage: 105-125 VAC, 47 to 420 Hz, single phase.

Output Voltage Setting: Outputs are factory preset to within ±2% (1 to 9 volt models) or ±1% (10 to 75 volt models) of the nominal output voltage.

T/C terminal: For single output models, the T/C terminal can be used to trim the output more precisely to the nominal voltage rating by connecting an external resistor from the T/C terminal to either the + or– terminal. For dual output models, the T/C terminal is the output common.

Polarity: Either positive or negative terminal of a single output module may be grounded. Dual output modules have a positive/common/negative output terminal configuration.

Ambient Operating Temperature: –20 to +71°C. No derating required.

Storage Temperature: –55 to +85°C.

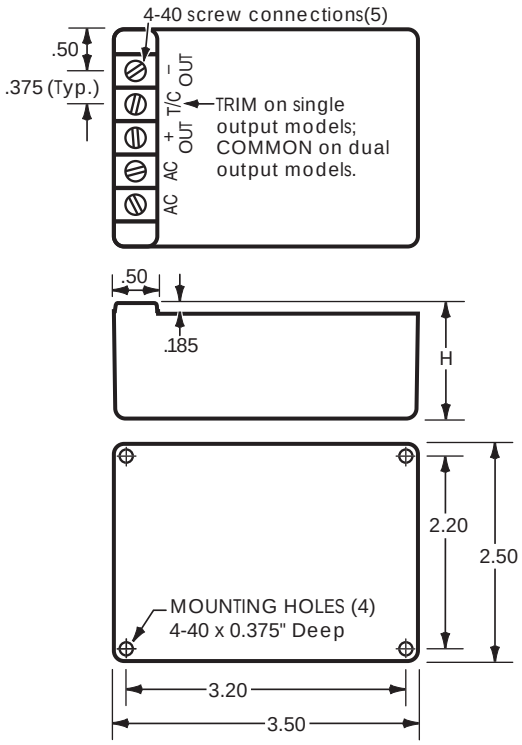
Temperature Coefficient: From 9 to 75 volts, typically 0.015%/°C; 1 to 8 volts, 0.03%/°C.

Impedance: 0.07 ohms at 1 kHz and 0.2 ohms at 10 kHz (approx.).

Mounting: Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket, or they may be used on a test bench or tabletop. When wall-mounting or DIN rail mounting is desired, use accessory Mounting Kits on page 77.

OPTIONS

230 Volt Input: All models can be alternately furnished for operation on an input of 210 to 250 VAC, 47-420 Hz. To order, add suffix "–230" to model number and $10.00 to price. The "–230" option requires two additional days.



Case Size	H	Approx. Weight
EB-10	1.375	15 oz.
EB-13	1.625	1 lb. 4 oz.
EB-20	2.375	2 lb. 1 oz.

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SINGLE OUTPUT, WITH SCREW TERMINALS

(For Mini Encapsulated power supplies with higher wattage outputs than those shown below, see pages 38-39.)

Nominal Output Voltage	Output Current Amps.	Regulation Load ±%	Regulation Line ±%	Ripple mV RMS	($) Price	Model	Case Size
1	.500	.4	.05	1	90	1EB50	EB-10
1.5	.500	.3	.05	1	90	1.5EB50	EB-10
1.5	1.0	.5	.05	1	120	1.5EB100	EB-13
1.5	2.5	.6	.05	1	161	1.5EB250	EB-20
2	.400	.25	.05	1	90	2EB40	EB-10
3	.500	.25	.05	1	90	3EB50	EB-10
3.3	.500	.15	.05	1	90	3.3EB50	EB-10
3.3	1.0	.4	.05	1	120	3.3EB100	EB-13
3.3	2.0	.4	.05	1	143	3.3EB200	EB-20
4	.400	.15	.05	1	90	4EB40	EB-10
5	.500	.15	.05	1	90	5EB50	EB-10
5	1.0	.25	.05	1	109	5EB100	EB-13
5	1.5	.25	.05	1	126	5EB150	EB-13
5	2.0	.25	.05	1	143	5EB200	EB-20
5	2.5	.25	.05	1	161	5EB250	EB-20
6	.400	.1	.05	1	90	6EB40	EB-10
6	.550	.25	.05	1	109	6EB55	EB-10
6	1.0	.25	.05	1	126	6EB100	EB-13
6	1.75	.2	.05	1	149	6EB175	EB-20
7	.340	.1	.05	1	90	7EB34	EB-10
7	.450	.2	.05	1	109	7EB45	EB-10
7	.900	.25	.05	1	126	7EB90	EB-13
7	1.15	.2	.05	1	149	7EB115	EB-20
8	.300	.1	.05	1	90	8EB30	EB-10
8	.700	.2	.05	1	126	8EB70	EB-13
8	1.1	.2	.05	1	149	8EB110	EB-20
9	.260	.1	.05	1	90	9EB26	EB-10
9	.450	.15	.05	1	109	9EB45	EB-10
9	.850	.2	.05	1	126	9EB85	EB-13
9	1.5	.2	.05	1	155	9EB150	EB-20
10	.240	.05	.05	1	90	10EB24	EB-10
10	.400	.15	.05	1	109	10EB40	EB-10
10	.750	.2	.05	1	126	10EB75	EB-13
10	1.2	.15	.05	1	155	10EB120	EB-20
11	.220	.05	.05	1	90	11EB22	EB-10
11	.350	.15	.05	1	109	11EB35	EB-10
11	.600	.15	.05	1	126	11EB60	EB-13
11	1.0	.15	.05	1	155	11EB100	EB-20
12	.200	.05	.05	1	90	12EB20	EB-10
12	.400	.1	.05	1	109	12EB40	EB-10
12	.700	.15	.05	1	132	12EB70	EB-13
12	1.2	.2	.05	1	155	12EB120	EB-20
13	.200	.05	.05	1	90	13EB20	EB-10
13	.350	.1	.05	1	109	13EB35	EB-10
13	.600	.1	.05	1	132	13EB60	EB-13
13	1.0	.15	.05	1	155	13EB100	EB-20
14	.200	.05	.05	1	90	14EB20	EB-10
14	.300	.1	.05	1	109	14EB30	EB-10
14	.500	.1	.05	1	126	14EB50	EB-13
14	1.0	.15	.05	1	155	14EB100	EB-20
15	.200	.05	.05	1	90	15EB20	EB-10
15	.400	.1	.05	1	109	15EB40	EB-10
15	.600	.1	.05	1	126	15EB60	EB-13
15	1.0	.15	.05	1	155	15EB100	EB-20
16	.160	.05	.05	1	90	16EB16	EB-10
16	.350	.1	.05	1	115	16EB35	EB-10
16	.500	.1	.05	1	132	16EB50	EB-13
16	.900	.15	.05	1	155	16EB90	EB-20
17	.140	.05	.05	1	90	17EB14	EB-10
17	.325	.1	.05	1	115	17EB33	EB-10
17	.450	.1	.05	1	132	17EB45	EB-13
17	.750	.15	.05	1	155	17EB75	EB-20
18	.120	.05	.05	1	90	18EB12	EB-10
18	.270	.1	.05	1	109	18EB27	EB-10
18	.400	.1	.05	1	126	18EB40	EB-13
18	.550	.1	.05	1	149	18EB55	EB-20
19	.120	.05	.05	1	90	19EB12	EB-10
19	.250	.1	.05	1	109	19EB25	EB-10
19	.400	.1	.05	1	126	19EB40	EB-13
19	.700	.1	.05	1	155	19EB70	EB-20
20	.120	.05	.05	1	90	20EB12	EB-10
20	.200	.1	.05	1	109	20EB20	EB-10
20	.400	.1	.05	1	126	20EB40	EB-13
20	.700	.1	.05	1	155	20EB70	EB-20
21	.120	.05	.05	1	90	21EB12	EB-10
21	.175	.1	.05	1	109	21EB18	EB-10
21	.375	.1	.05	1	126	21EB38	EB-13
21	.600	.1	.05	1	149	21EB60	EB-20
22	.100	.05	.05	1	90	22EB10	EB-10
22	.150	.1	.05	1	109	22EB15	EB-10
22	.300	.1	.05	1	126	22EB30	EB-13
22	.500	.1	.05	1	149	22EB50	EB-20
23	.100	.05	.05	1	90	23EB10	EB-10
23	.200	.1	.05	1	109	23EB20	EB-10
23	.300	.1	.05	1	126	23EB30	EB-13
23	.600	.1	.05	1	155	23EB60	EB-20
24	.100	.05	.05	1	90	24EB10	EB-10
24	.200	.1	.05	1	109	24EB20	EB-10
24	.350	.1	.05	1	132	24EB35	EB-13
24	.600	.1	.05	1	155	24EB60	EB-20
25	.100	.05	.05	1	90	25EB10	EB-10
25	.190	.1	.05	1	109	25EB19	EB-10
25	.325	.1	.05	1	132	25EB33	EB-13
25	.550	.1	.05	1	155	25EB55	EB-20
26	.080	.05	.05	1	90	26EB08	EB-10
26	.170	.1	.05	1	109	26EB17	EB-10
26	.300	.1	.05	1	126	26EB30	EB-13
26	.450	.1	.05	1	149	26EB45	EB-20
27	.080	.05	.05	1	90	27EB08	EB-10
27	.160	.1	.05	1	109	27EB16	EB-10
27	.300	.1	.05	1	126	27EB30	EB-13
27	.500	.1	.05	1	155	27EB50	EB-20
28	.080	.05	.05	1	90	28EB08	EB-10
28	.150	.1	.05	1	109	28EB15	EB-10
28	.300	.1	.05	1	132	28EB30	EB-13
28	.500	.1	.05	1	155	28EB50	EB-20
30	.080	.02	.02	1	97	30EB08	EB-13
32	.070	.02	.02	1	97	32EB07	EB-13
34	.060	.02	.02	1	97	34EB06	EB-13
35	.050	.02	.02	1	97	35EB05	EB-13
36	.050	.02	.02	1	97	36EB05	EB-13
38	.040	.02	.02	1	97	38EB04	EB-13
40	.030	.02	.02	1	97	40EB03	EB-13
40	.060	.02	.02	1	120	40EB06	EB-13
42	.030	.02	.02	1	97	42EB03	EB-13
44	.030	.02	.02	1	97	44EB03	EB-13
45	.030	.02	.02	1	97	45EB03	EB-13
48	.030	.02	.02	1	97	48EB03	EB-13
48	.050	.02	.02	1	120	48EB05	EB-13
50	.030	.02	.02	1	97	50EB03	EB-13
50	.050	.02	.02	1	120	50EB05	EB-13
55	.040	.02	.02	1	120	55EB04	EB-13
60	.050	.02	.02	1	120	60EB05	EB-13
65	.050	.02	.02	1	120	65EB05	EB-13
70	.040	.02	.02	1	120	70EB04	EB-13
75	.030	.02	.02	1	120	75EB03	EB-13
185	.025	Unregulated		2V	63	NX-25B	EB-10
185	.050	Unregulated		3.5V	86	NX-50B	EB-13

DUAL TRACKING OUTPUTS

Nominal Output Voltages	Amps. per Output	Regulation Load ±%	Regulation Line ±%	Ripple mV RMS	($) Price	Model	Case Size
±5	.150	.1	.05	1.5	97	DB5-15	EB-10
±5	.250	.1	.05	1.5	120	DB5-25	EB-10
±5	.500	.1	.05	1.5	166	DB5-50	EB-20
±10	.200	.05	.05	1	109	DB10-20	EB-10
±10	.300	.05	.05	1	143	DB10-30	EB-13
±10	.400	.1	.05	1	166	DB10-40	EB-20
±12	.100	.05	.05	1	86	DB12-10	EB-10
±12	.150	.05	.05	1	97	DB12-15	EB-10
±12	.200	.05	.05	1	109	DB12-20	EB-10
±12	.300	.05	.05	1	132	DB12-30	EB-13
±12	.350	.05	.05	1	143	DB12-35	EB-13
±12	.500	.1	.05	1	166	DB12-50	EB-20
±15	.100	.05	.05	1	86	DB15-10	EB-10
±15	.150	.05	.05	1	97	DB15-15	EB-10
±15	.200	.05	.05	1	109	DB15-20	EB-10
±15	.300	.05	.05	1	132	DB15-30	EB-13
±15	.350	.05	.05	1	143	DB15-35	EB-13
±15	.500	.1	.05	1	166	DB15-50	EB-20

single output

Mini Encapsulated - PC Board mounting or - with screw terminals

SWITCHING REGULATED
DC output (accepts either AC or DC input)



- Shipped Within 6 Days
- One Year Warranty

These versatile power supplies mount in a surface area of only 3.5″ x 2.5″, and are available in a choice of mounting styles. They have a high efficiency and may be operated through a wide temperature range.

A common-mode input filter reduces conducted noise, and the shielded case minimizes radiated energy. Their outputs may be used in either polarity, and may be precisely trimmed.

STANDARD FEATURES

- Compact, lightweight, fully encapsulated
- Short circuit and overload protected
- No heat sinking or forced air required
- Input/output isolation
- Extensive EMI filtering and shielding

SPECIFICATIONS

Input Voltage: 85-130 VAC, 47-420 Hz, single phase, or 120-180 Vdc. DC input may be connected without regard to polarity.

Output Voltage Setting: Output is factory preset to within ±2% (5 to 9 volt models) or ±1% (10 to 48 volt models) of the nominal output voltage.

T/C terminal (Output Voltage Trim Adjustment): The T/C terminal can be used to trim the output more precisely to the nominal voltage rating by connecting an external resistor from the T/C terminal to either the + or – terminal.

Polarity: Output is floating. Either positive or negative terminal may be grounded.

Regulation:
Load: ±0.05% (5 and 6 volt "WL" models, ±0.1%)
Line: ±0.05%

Ambient Operating Temperature: –10 to +71°C. No derating required through +50°C.

Storage Temperature: –40 to +85°C.

Temperature Coefficient: ±0.02%/°C (Typical).

Humidity: Maximum of 90% relative, non-condensing.

Overload/Short Circuit Protection: Power foldback with automatic recovery.

Isolation:
Input to output: 1400 Vdc
Input to ground: 1400 Vdc
Output to ground: 400 Vdc

Efficiency: 76% (Typical).

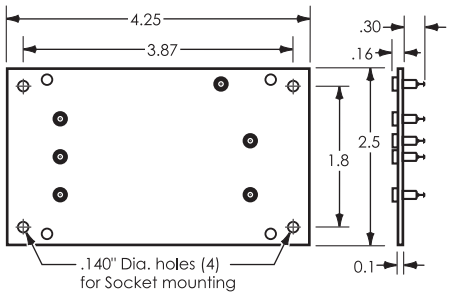
Switching Frequency: 225 kHz (Typical).

Transient Response: Returns to within ±1% of output setting within 300 µS. Maximum of ±3% output excursion following a load step change from 50% to 100% of rating.

Holdup Time: 33 mS (Typical, at nominal input voltage with full load).

Mounting: Models for PC Board mounting may also be mounted in the socket shown below. For models with screw terminals, when wall-mounting or DIN rail mounting is desired, use accessory Mounting Kits on page 77.

ACCESSORY SOCKET



Accepts power supplies in case sizes ELW-13 and ELW-20. Sturdy phenolic base with gold plated teflon-insulated contacts.

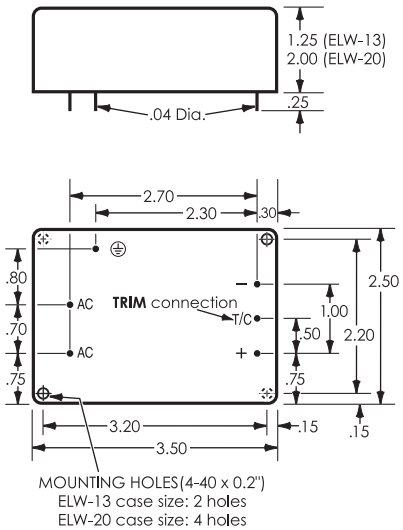
Model ELW-1 .....$20

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FOR PC BOARD MOUNTING

Nominal Output Voltage	Output Current Amps. at 50°C	Output Current Amps. at 71°C	Ripple mV (@ 25 MHz BW) RMS	Ripple mV (@ 25 MHz BW) P-P	($) Price	Model	Case Size
5	6.00	3.60	10	50	175	5WL600	ELW-13
5	10.00	6.00	10	50	200	5WL1000	ELW-20
6	5.00	3.00	10	50	175	6WL500	ELW-13
6	8.30	4.95	10	50	200	6WL830	ELW-20
7	4.20	2.50	15	100	175	7WL420	ELW-13
7	7.10	4.26	15	100	200	7WL710	ELW-20
8	3.70	2.20	15	100	175	8WL370	ELW-13
8	6.20	3.70	15	100	200	8WL620	ELW-20
9	3.30	2.00	15	100	175	9WL330	ELW-13
9	5.50	3.30	15	100	200	9WL550	ELW-20
10	3.00	1.80	15	100	175	10WL300	ELW-13
10	5.00	3.00	15	100	200	10WL500	ELW-20
11	2.70	1.60	15	100	175	11WL270	ELW-13
11	4.50	2.70	15	100	200	11WL450	ELW-20
12	2.50	1.50	15	100	175	12WL250	ELW-13
12	4.10	2.45	15	100	200	12WL410	ELW-20
13	2.30	1.38	15	100	175	13WL230	ELW-13
13	3.80	2.25	15	100	200	13WL380	ELW-20
14	2.10	1.25	15	100	175	14WL210	ELW-13
14	3.50	2.10	15	100	200	14WL350	ELW-20
15	2.00	1.20	15	100	175	15WL200	ELW-13
15	3.30	1.95	15	100	200	15WL330	ELW-20
16	1.85	1.10	15	100	175	16WL185	ELW-13
16	3.10	1.85	15	100	200	16WL310	ELW-20
17	1.75	1.05	15	100	175	17WL175	ELW-13
17	2.90	1.75	15	100	200	17WL290	ELW-20
18	1.65	1.00	15	100	175	18WL165	ELW-13
18	2.75	1.65	15	100	200	18WL275	ELW-20
19	1.55	.93	15	100	175	19WL155	ELW-13
19	2.60	1.55	15	100	200	19WL260	ELW-20
20	1.50	.90	15	100	175	20WL150	ELW-13
20	2.50	1.50	15	100	200	20WL250	ELW-20
21	1.40	.84	15	100	175	21WL140	ELW-13
21	2.35	1.40	15	100	200	21WL235	ELW-20
22	1.35	.80	15	100	175	22WL135	ELW-13
22	2.25	1.35	15	100	200	22WL225	ELW-20
23	1.30	.78	15	100	175	23WL130	ELW-13
23	2.15	1.30	15	100	200	23WL215	ELW-20
24	1.25	.75	15	100	175	24WL125	ELW-13
24	2.10	1.25	15	100	200	24WL210	ELW-20
25	1.20	.72	15	100	175	25WL120	ELW-13
25	2.00	1.20	15	100	200	25WL200	ELW-20
26	1.15	.70	15	100	175	26WL115	ELW-13
26	1.90	1.15	15	100	200	26WL190	ELW-20
27	1.10	.66	15	100	175	27WL110	ELW-13
27	1.85	1.10	15	100	200	27WL185	ELW-20
28	1.05	.63	15	100	175	28WL105	ELW-13
28	1.75	1.05	15	100	200	28WL175	ELW-20
30	1.00	.60	25	150	175	30WL100	ELW-13
30	1.65	1.00	25	150	200	30WL165	ELW-20
36	.85	.50	25	150	175	36WL85	ELW-13
36	1.35	.80	25	150	200	36WL135	ELW-20
40	.75	.45	25	150	175	40WL75	ELW-13
40	1.25	.75	25	150	200	40WL125	ELW-20
45	.65	.40	25	150	175	45WL65	ELW-13
45	1.10	.65	25	150	200	45WL110	ELW-20
48	.65	.40	25	150	175	48WL65	ELW-13
48	1.05	.60	25	150	200	48WL105	ELW-20

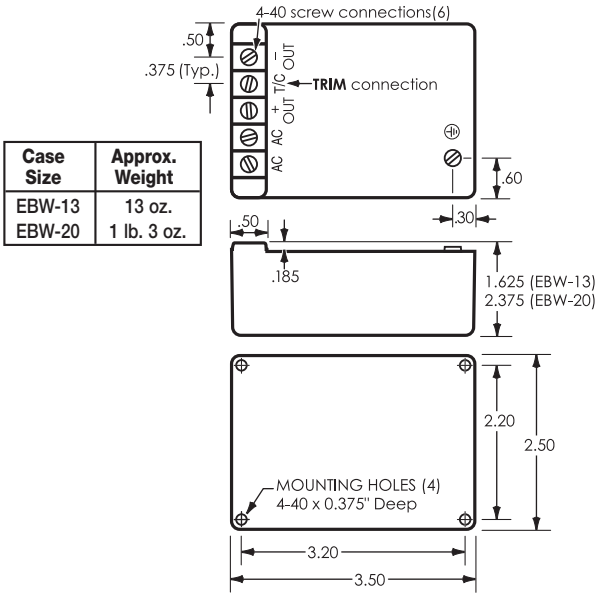
Case Size	Approx. Weight
ELW-13	11 oz.
ELW-20	1 lb. 1 oz.



WITH SCREW TERMINALS

Nominal Output Voltage	Output Current Amps. at 50°C	Output Current Amps. at 71°C	Ripple mV (@ 25 MHz BW) RMS	Ripple mV (@ 25 MHz BW) P-P	($) Price	Model	Case Size
5	6.00	3.60	10	50	180	5WB600	EBW-13
5	10.00	6.00	10	50	205	5WB1000	EBW-20
6	5.00	3.00	10	50	180	6WB500	EBW-13
6	8.30	4.95	10	50	205	6WB830	EBW-20
7	4.20	2.50	15	100	180	7WB420	EBW-13
7	7.10	4.26	15	100	205	7WB710	EBW-20
8	3.70	2.20	15	100	180	8WB370	EBW-13
8	6.20	3.70	15	100	205	8WB620	EBW-20
9	3.30	2.00	15	100	180	9WB330	EBW-13
9	5.50	3.30	15	100	205	9WB550	EBW-20
10	3.00	1.80	15	100	180	10WB300	EBW-13
10	5.00	3.00	15	100	205	10WB500	EBW-20
11	2.70	1.60	15	100	180	11WB270	EBW-13
11	4.50	2.70	15	100	205	11WB450	EBW-20
12	2.50	1.50	15	100	180	12WB250	EBW-13
12	4.10	2.45	15	100	205	12WB410	EBW-20
13	2.30	1.38	15	100	180	13WB230	EBW-13
13	3.80	2.25	15	100	205	13WB380	EBW-20
14	2.10	1.25	15	100	180	14WB210	EBW-13
14	3.50	2.10	15	100	205	14WB350	EBW-20
15	2.00	1.20	15	100	180	15WB200	EBW-13
15	3.30	1.95	15	100	205	15WB330	EBW-20
16	1.85	1.10	15	100	180	16WB185	EBW-13
16	3.10	1.85	15	100	205	16WB310	EBW-20
17	1.75	1.05	15	100	180	17WB175	EBW-13
17	2.90	1.75	15	100	205	17WB290	EBW-20
18	1.65	1.00	15	100	180	18WB165	EBW-13
18	2.75	1.65	15	100	205	18WB275	EBW-20
19	1.55	.93	15	100	180	19WB155	EBW-13
19	2.60	1.55	15	100	205	19WB260	EBW-20
20	1.50	.90	15	100	180	20WB150	EBW-13
20	2.50	1.50	15	100	205	20WB250	EBW-20
21	1.40	.84	15	100	180	21WB140	EBW-13
21	2.35	1.40	15	100	205	21WB235	EBW-20
22	1.35	.80	15	100	180	22WB135	EBW-13
22	2.25	1.35	15	100	205	22WB225	EBW-20
23	1.30	.78	15	100	180	23WB130	EBW-13
23	2.15	1.30	15	100	205	23WB215	EBW-20
24	1.25	.75	15	100	180	24WB125	EBW-13
24	2.10	1.25	15	100	205	24WB210	EBW-20
25	1.20	.72	15	100	180	25WB120	EBW-13
25	2.00	1.20	15	100	205	25WB200	EBW-20
26	1.15	.70	15	100	180	26WB115	EBW-13
26	1.90	1.15	15	100	205	26WB190	EBW-20
27	1.10	.66	15	100	180	27WB110	EBW-13
27	1.85	1.10	15	100	205	27WB185	EBW-20
28	1.05	.63	15	100	180	28WB105	EBW-13
28	1.75	1.05	15	100	205	28WB175	EBW-20
30	1.00	.60	25	150	180	30WB100	EBW-13
30	1.65	1.00	25	150	205	30WB165	EBW-20
36	.85	.50	25	150	180	36WB85	EBW-13
36	1.35	.80	25	150	205	36WB135	EBW-20
40	.75	.45	25	150	180	40WB75	EBW-13
40	1.25	.75	25	150	205	40WB125	EBW-20
45	.65	.40	25	150	180	45WB65	EBW-13
45	1.10	.65	25	150	205	45WB110	EBW-20
48	.65	.40	25	150	180	48WB65	EBW-13
48	1.05	.60	25	150	205	48WB105	EBW-20

Case Size	Approx. Weight
EBW-13	13 oz.
EBW-20	1 lb. 3 oz.



Narrow Profile
SINGLE OUTPUT
LINEAR REGULATED
AC-DC



- Shipped Within 3 Days
- All Models U.L. Recognized
- Five Year Warranty

Where only a narrow mounting space is available, Acopian Narrow Profile power supplies fit where many others cannot. Choose from Series A (High Performance) and Series B (General Purpose) models with output ratings up to 150 volts, up to 3.5 amps.

SPECIFICATIONS

Input Voltage: 105-125 VAC, 50-400 Hz, single phase.

Output Specifications: See table.
Series A: Model numbers begin with the letter A.
Series B: Model numbers begin with the letter B.

Remote Voltage Adjustment/Sensing: Standard in Series A, not available in Series B.

Polarity: Output is floating; either positive or negative terminal may be grounded or floated up to 300 volts above ground.

Temperature Coefficient:
Series A: 0.015%/°C (Typical).
Series B: 0.02%/°C (Typical).

Ambient Operating Temperature:
Series A: –20 to +71°C.
Series B: 0 to +71°C.

Storage Temperature: –55 to +85°C.

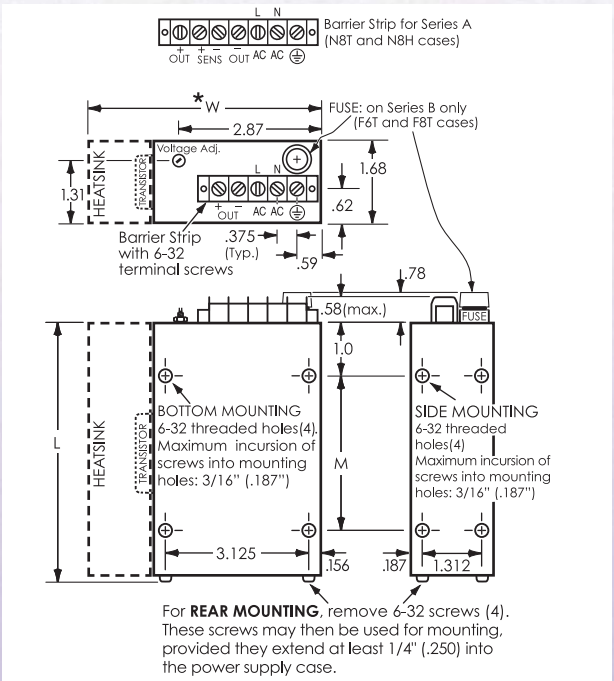
Overload/Short Circuit Protection:
Series A: Foldback current limiting with automatic recovery.
Series B: Input fuse and output current limiting.

OPTIONS

Overvoltage Protection: An internal preset overvoltage protector is available. To order, add prefix "V" to the model number and add $25.00 to the standard price of models with outputs of 1 to 70 volts; $35.00, for 75 to 150 volt outputs.

Terminal Strip Cover: Clips on. To order, add suffix "M" to model number and $5.00 to price.

230 Volt Input: All models can be alternately furnished for operation on inputs of 210-250 VAC, 50-400 Hz. To order, add suffix "–230" to model number and $25.00 to price. The "–230" option requires two additional days.



Case Size	L	W*	M	Approx. Weight
F6T	6.59	3.84	4.0	2 lb. 4 oz.
F8T	8.47	3.84	5.0	3 lb. 2 oz.
N8T	8.47	3.84	5.0	3 lb. 2 oz.
N8H	8.47	4.68	5.0	3 lb. 14 oz.

*W dimension includes TRANSISTOR on F6T, F8T, and N8T cases and HEATSINK on N8H case.

Mounting: Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket, or they may be used on a test bench or tabletop. To mount from the power supply side of the mounting surface or for DIN rail mounting, see accessory Mounting Kits on page 91.

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NARROW PROFILE SINGLE OUTPUT

Nominal Output Voltage	Adjust ±V	Output Current Amps. at 40°C	55°C	71°C	Regulation Load ± %*	Line ± %*	Ripple mV RMS	($) Price	Model	Case Size
1	.5	2.2	2.1	2.0	.005	.005	.250	180	A1NT220	N8T
1	.5	3.5	3.5	3.0	.005	.005	.250	215	A1NT350	N8H
1.5	.5	2.2	2.1	2.0	.005	.005	.250	180	A1.5NT220	N8T
1.5	.5	3.5	3.5	3.0	.005	.005	.250	215	A1.5NT350	N8H
2	.5	2.2	2.1	2.0	.005	.005	.250	180	A2NT220	N8T
2	.5	3.0	3.0	3.0	.005	.005	.250	215	A2NT300	N8H
3	.5	1.0	1.0	1.0	.5	.1	1	150	B3TN100	F6T
3	.5	2.2	2.1	2.0	.005	.005	.250	180	A3NT220	N8T
3	.5	3.5	3.5	3.0	.005	.005	.250	215	A3NT350	N8H
3.3	.5	1.0	1.0	1.0	.5	.1	1	150	B3.3TN100	F6T
3.3	.5	2.2	2.1	2.0	.005	.005	.250	180	A3.3NT220	N8T
3.3	.5	3.5	3.5	3.0	.005	.005	.250	215	A3.3NT350	N8H
5	.5	1.0	1.0	1.0	.1	.1	1	145	B5TN100	F6T
5	.5	1.1	1.0	1.0	.005	.005	.250	155	A5TN110	N8T
5	.5	2.2	2.1	2.0	.005	.005	.250	180	A5NT220	N8T
5	.5	3.5	3.5	3.0	.005	.005	.250	215	A5NT350	N8H
6	.5	1.0	1.0	1.0	.1	.1	1	150	B6TN100	F6T
6	.5	2.2	2.1	2.0	.005	.005	.250	180	A6NT220	N8T
6	.5	2.7	2.7	2.7	.005	.005	.250	215	A6NT270	N8H
7	1	1.0	1.0	1.0	.1	.1	1	150	B7TN100	F6T
7	.5	1.1	1.0	1.0	.005	.005	.250	170	A7TN110	N8T
7	.5	2.0	2.0	2.0	.005	.005	.250	200	A7NT200	N8H
8	1	1.0	1.0	1.0	.1	.1	1	150	B8TN100	F6T
8	.5	1.1	1.0	1.0	.005	.005	.250	170	A8TN110	N8T
8	.5	2.0	2.0	2.0	.005	.005	.250	200	A8NT200	N8H
9	1	1.0	1.0	1.0	.1	.1	1	150	B9TN100	F6T
9	.5	1.1	1.0	1.0	.005	.005	.250	170	A9TN110	N8T
9	.5	2.0	2.0	2.0	.005	.005	.250	200	A9NT200	N8H
10	1	1.0	1.0	1.0	.1	.1	1	155	B10TN100	F6T
10	.5	1.1	1.0	1.0	.005	.005	.250	170	A10TN110	N8T
10	.5	2.0	2.0	2.0	.005	.005	.250	200	A10NT200	N8H
11	1	1.0	1.0	.750	.1	.1	1	155	B11TN100	F6T
11	.5	1.1	1.0	1.0	.005	.005	.250	170	A11TN110	N8T
11	.5	2.0	2.0	2.0	.005	.005	.250	200	A11NT200	N8H
12	1	1.0	1.0	.750	.1	.1	1	155	B12TN100	F6T
12	.5	1.1	1.0	1.0	.005	.005	.250	170	A12TN110	N8T
12	.5	2.0	2.0	2.0	.005	.005	.250	200	A12NT200	N8H
13	1	1.0	1.0	.750	.1	.1	1	155	B13TN100	F6T
13	.5	1.1	1.0	1.0	.005	.005	.250	170	A13TN110	N8T
13	.5	2.0	2.0	2.0	.005	.005	.250	200	A13NT200	N8H
14	1	1.0	1.0	.750	.1	.1	1	155	B14TN100	F6T
14	.5	1.1	1.0	1.0	.005	.005	.250	170	A14TN110	N8T
14	.5	2.0	2.0	2.0	.005	.005	.250	200	A14NT200	N8H
15	1	1.0	1.0	.750	.1	.1	1	155	B15TN100	F6T
15	.5	1.1	1.0	1.0	.005	.005	.250	170	A15TN110	N8T
15	.5	2.0	2.0	2.0	.005	.005	.250	200	A15NT200	N8H
16	1	1.0	1.0	.750	.1	.1	1	155	B16TN100	F6T
16	.5	1.0	1.0	1.0	.005	.005	.250	170	A16TN100	N8T
16	.5	1.75	1.75	1.75	.005	.005	.250	200	A16NT175	N8H
18	1	.750	.750	.750	.1	.1	1	155	B18TN75	F6T
18	.5	1.0	1.0	1.0	.005	.005	.250	170	A18TN100	N8T
18	.5	1.5	1.5	1.5	.005	.005	.250	200	A18NT150	N8H
20	1	.500	.500	.500	.1	.1	1	140	B20TN50	F6T
20	.5	.900	.900	.900	.005	.005	.250	170	A20TN90	N8T
20	.5	1.25	1.25	1.25	.005	.005	.250	200	A20NT125	N8H
24	1	.750	.750	.750	.1	.1	1	155	B24TN75	F6T
24	.5	1.0	1.0	1.0	.005	.005	.250	180	A24TN100	N8T
24	.5	1.25	1.25	1.25	.005	.005	.250	205	A24NT125	N8H
25	1	.750	.750	.750	.1	.05	1	155	B25TN75	F6T
25	.5	.750	.750	.750	.005	.005	.250	180	A25TN75	N8T
25	.5	1.25	1.25	1.25	.005	.005	.250	205	A25NT125	N8H

Nominal Output Voltage	Adjust ±V	Output Current Amps. at 40°C	55°C	71°C	Regulation Load ± %	Line ± %	Ripple mV RMS	($) Price	Model	Case Size
26	1	.750	.750	.750	.1	.05	1	155	B26TN75	F6T
26	.5	1.25	1.25	1.25	.005	.005	.250	205	A26NT125	N8H
28	1	.700	.700	.700	.1	.05	1	155	B28TN70	F6T
28	.5	.800	.800	.800	.005	.005	.250	180	A28NT80	N8T
28	.5	1.25	1.25	1.25	.005	.005	.250	205	A28NT125	N8H
30	1	.500	.500	.500	.05	.05	1	155	B30TN50	F6T
30	.5	.750	.750	.750	.005	.005	.250	185	A30NT75	N8T
30	.5	1.1	1.1	1.1	.005	.005	.250	215	A30NT110	N8H
32	1	.400	.400	.400	.05	.05	1	150	B32TN40	F6T
32	.5	.600	.600	.600	.005	.005	.250	180	A32TN60	N8T
34	1	.400	.400	.400	.05	.05	1	150	B34TN40	F6T
34	.5	1.1	1.1	1.1	.005	.005	.250	215	A34NT110	N8H
35	1	.400	.400	.400	.05	.05	1	150	B35TN40	F6T
35	.5	.600	.600	.600	.005	.005	.250	180	A35TN60	N8T
35	.5	1.1	1.1	1.1	.005	.005	.250	215	A35NT110	N8H
36	1	.400	.400	.400	.05	.05	1	150	B36TN40	F6T
36	.5	.600	.600	.600	.005	.005	.250	180	A36TN60	N8T
36	.5	1.0	1.0	1.0	.005	.005	.250	215	A36NT100	N8H
38	1	.200	.200	.200	.05	.05	1	140	B38TN20	F6T
40	1	.400	.400	.400	.05	.05	1	160	B40TN40	F6T
40	.5	.750	.750	.750	.005	.005	.250	200	A40NT75	N8T
45	1	.400	.400	.400	.05	.05	1	170	B45TN40	F6T
45	.5	.600	.600	.600	.005	.005	.250	205	A45NT60	N8T
48	1	.400	.400	.400	.05	.05	1	180	B48TN40	F6T
48	.5	.500	.500	.500	.005	.005	.250	215	A48NT50	N8T
50	1	.400	.400	.400	.05	.05	1	190	B50FT40	F6T
50	1	.450	.450	.450	.005	.005	.250	225	A50NT45	N8T
55	1	.200	.200	.200	.05	.05	1	160	B55FT20	F6T
55	1	.400	.400	.400	.005	.005	.250	225	A55NT40	N8T
60	1	.150	.150	.150	.05	.05	1	160	B60FT15	F6T
60	1	.350	.350	.350	.005	.005	.250	225	A60NT35	N8T
65	1	.100	.100	.100	.05	.05	1	155	B65FT10	F6T
65	1	.250	.250	.250	.05	.05	1	195	B65FT25	F8T
65	1	.270	.270	.270	.005	.005	.250	225	A65NT27	N8T
67	1	.100	.100	.100	.05	.05	1	155	B67FT10	F6T
70	1	.100	.100	.100	.05	.05	1	155	B70FT10	F6T
70	1	.250	.250	.250	.005	.005	.250	225	A70NT25	N8T
75	1	.200	.200	.200	.05	.05	1	190	B75FT20	F8T
75	1	.250	.250	.250	.005	.005	.250	225	A75NT25	N8T
80	1	.100	.100	.100	.05	.05	1	165	B80FT10	F6T
80	1	.200	.200	.200	.05	.05	1	190	B80FT20	F8T
80	1	.250	.250	.250	.005	.005	.250	225	A80NT25	N8T
85	1	.250	.250	.250	.005	.005	.250	225	A85NT25	N8T
90	1	.100	.100	.100	.05	.05	1	170	B90FT10	F6T
90	1	.200	.200	.200	.05	.05	1	195	B90FT20	F8T
90	1	.250	.250	.250	.005	.005	.250	230	A90NT25	N8T
95	1	.200	.200	.200	.05	.05	1	200	B95FT20	F8T
95	1	.200	.200	.200	.005	.005	.250	225	A95NT20	N8T
100	1	.100	.100	.100	.05	.05	1	190	B100FT10	F6T
100	1	.200	.200	.200	.05	.05	1	205	B100FT20	F8T
100	1	.200	.200	.200	.005	.005	.250	235	A100NT20	N8T
110	1	.100	.100	.100	.05	.05	1	190	B110FT10	F6T
115	1	.100	.100	.100	.05	.05	1	190	B115FT10	F6T
120	1	.050	.050	.050	.05	.05	1	185	B120FT05	F6T
120	1	.200	.200	.200	.05	.05	1	215	B120FT20	F8T
120	1	.200	.200	.200	.005	.005	.250	235	A120NT20	N8T
125	1	.050	.050	.050	.05	.05	1	185	B125FT05	F6T
125	1	.200	.200	.200	.05	.05	1	215	B125FT20	F8T
125	1	.200	.200	.200	.005	.005	.250	235	A125NT20	N8T
150	1	.100	.100	.100	.05	.05	1	205	B150FT10	F8T
150	1	.100	.100	.100	.005	.005	.250	235	A150NT10	N8T

*or 2 mv, whichever is greater

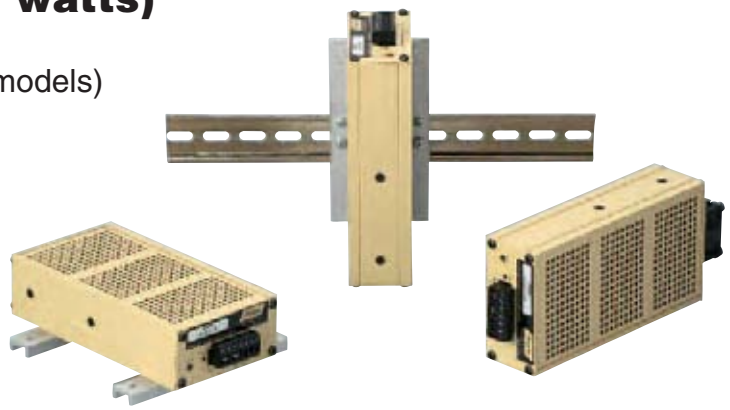
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Narrow Profile

SWITCHING REGULATED (to 120 watts)

AC-DC single output
DC-DC (DC input can be used on 230 VAC input models)

- Shipped Within 3 Days
- Five Year Warranty



This newest group of Narrow Profile switchers includes convection cooled models less than 7" long that provide outputs up to 75 watts and fan cooled models less than 8" long that provide outputs to 120 watts.

STANDARD FEATURES

- Internal EMI Filter and Shielding
- Pluggable Input/output Terminal Block
- Excellent Load/line Regulation
- Overcurrent, Overvoltage Protection
- No Minimum Load Required

SPECIFICATIONS

Input Voltage: 90-132 VAC, 47-420 Hz, single phase. 180-265 VAC input is also available (see Options).

DC Input: Not applicable on 115 VAC models. On 230 VAC models, 200-375 Vdc input can be used. DC input may be connected without regard to polarity.

Inrush current: Cold start, (thermistor limiter) 15A peak @115 VAC; 30A peak @ 230 VAC.

Startup Time: 1 second typical.

Input Undervoltage: An input of less than 90 VAC (180 VAC with "–230" option) will not damage power supply.

Regulation:
Line: ±0.05%
Load: ±0.05%

Output Voltage Remote Adjustment: The output voltage may be controlled by means of an external 1K potentiometer.

Polarity: Output is floating and may be used in either polarity.

Drift: ±0.1% typical over 8 hours, after 30 minute warmup.

Temperature Coefficient: ±0.02%/°C (Typical).

Holdup Time: 20 mS minimum.

Transient Response: 300 µS to return to ±1% of output setting. Maximum of ±3% output excursion following a load step change from 50% to 100%.

Remote Sensing: Compensates up to 0.5 volt drop per output line, within the limits of the output voltage adjustment range.

Overload/Short Circuit Protection: Current limiting with automatic recovery.

Overvoltage Protection: Latches power supply OFF, reset by momentarily removing AC input power.

EMI: Designed to meet FCC Part 15 and EN55022, Class A.

Output Indicator (DC on): Green LED.

Efficiency: See table. (Typical, at nominal input voltage, with full load.)

Ambient Operating Temperature: 0 to +71°C.

Storage Temperature: –40 to +85°C.

Cooling: Case size WN6A: forced-air cooled; air enters rear of power supply and exits from top.
Case size WN6B: convection cooled.

Switching Frequency: 100 kHz (Typical).

Dielectric Withstand Voltage		Isolation
Input to output:	4242 Vdc	500 VAC
Input to case:	2121 Vdc	500 VAC
Output to case:	750 Vdc	300 VAC

Internal Failure Protection: Provided by internal fuse.

Mounting: Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket. To mount from the power supply side of the mounting surface or for DIN rail mounting, see accessory Mounting Kits on page 91.

OPTIONS

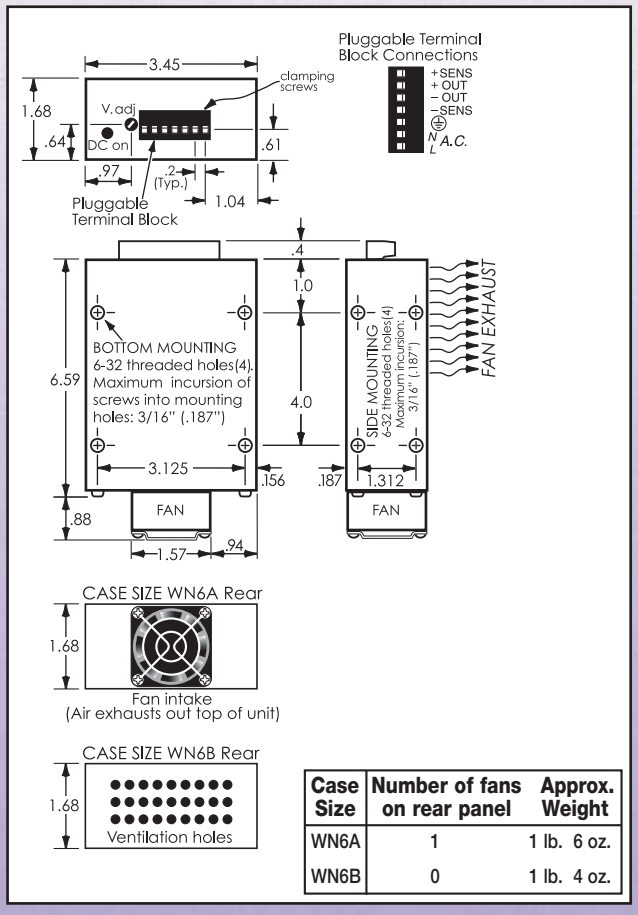
230 Volt Input: For applications where operation on an input of 180-265 VAC, 47-420 Hz, is desired. To order, add suffix "–230" to the model number. No increase in price.
On 230 VAC models, 200-375 Vdc input can also be used.

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Narrow Profile SWITCHING REGULATED (to 120 watts)

Nominal Output Voltage	Adjust Range ± V	Output Current Amps. at 40°C	Output Current Amps. at 71°C	Ripple mV (@ 25 MHz BW) RMS	Ripple mV (@ 25 MHz BW) P-P	Effic. (Typ.) %	($) Price	Model	Case Size
3.3	.5	12	8.4	10	50	66	185	W3.3FT1200	WN6B
3.3	.5	15	10.5	10	50	66	225	W3.3FT1500	WN6A
5	.5	12	8.4	10	50	70	185	W5FT1200	WN6B
5	.5	15	10.5	10	50	70	225	W5FT1500	WN6A
6	.5	10	7	10	50	71	185	W6FT1000	WN6B
6	.5	12.5	8.6	10	50	71	225	W6FT1250	WN6A
7	.5	8.5	5.9	10	50	71	185	W7FT850	WN6B
7	.5	10.6	7.4	10	50	71	225	W7FT1060	WN6A
8	.5	7.5	5.2	15	100	72	185	W8FT750	WN6B
8	.5	9.4	6.6	15	100	72	225	W8FT940	WN6A
9	.5	6.6	4.6	15	100	73	185	W9FT660	WN6B
9	.5	9.3	6.5	15	100	73	225	W9FT930	WN6A
10	.5	6	4.2	15	100	73	185	W10FT600	WN6B
10	.5	9.2	6.4	15	100	73	225	W10FT920	WN6A
12	.5	5.8	4.0	15	100	76	185	W12FT580	WN6B
12	.5	9.1	6.3	15	100	76	225	W12FT910	WN6A
13	.5	5.3	3.7	15	100	76	185	W13FT530	WN6B
13	.5	8.1	5.6	15	100	76	225	W13FT810	WN6A
14	.5	4.9	3.4	15	100	76	185	W14FT490	WN6B
14	.5	7.7	5.4	15	100	76	225	W14FT770	WN6A
15	.5	4.7	3.3	15	100	76	185	W15FT470	WN6B
15	.5	7.4	5.2	15	100	76	225	W15FT740	WN6A
16	.5	4.4	3	15	100	76	185	W16FT440	WN6B
16	.5	6.8	4.7	15	100	76	225	W16FT680	WN6A
18	.5	4	2.8	15	100	78	185	W18FT400	WN6B
18	.5	6	4.2	15	100	78	225	W18FT600	WN6A
20	.5	3.7	2.6	15	100	78	185	W20FT370	WN6B
20	.5	5.6	3.9	15	100	78	225	W20FT560	WN6A

Nominal Output Voltage	Adjust Range ± V	Output Current Amps. at 40°C	Output Current Amps. at 71°C	Ripple mV (@ 25 MHz BW) RMS	Ripple mV (@ 25 MHz BW) P-P	Effic. (Typ.) %	($) Price	Model	Case Size
22	.5	3.4	2.4	15	100	79	185	W22FT340	WN6B
22	.5	5.3	3.7	15	100	79	225	W22FT530	WN6A
24	.5	3.2	2.2	15	100	81	185	W24FT320	WN6B
24	.5	5	3.5	15	100	80	225	W24FT500	WN6A
25	.5	3	2.1	15	100	81	185	W25FT300	WN6B
25	.5	4.8	3.3	15	100	80	225	W25FT480	WN6A
26	.5	2.8	2	15	100	81	185	W26FT280	WN6B
26	.5	4.6	3.2	15	100	80	225	W26FT460	WN6A
28	.5	2.7	1.9	15	100	81	185	W28FT270	WN6B
28	.5	4.2	2.9	15	100	80	225	W28FT420	WN6A
30	.5	2.5	1.7	25	150	81	185	W30FT250	WN6B
30	.5	4	2.8	25	150	80	225	W30FT400	WN6A
32	1	2.3	1.6	25	150	81	185	W32FT230	WN6B
32	1	3.7	2.5	25	150	80	225	W32FT370	WN6A
34	1	2.2	1.5	25	150	81	185	W34FT220	WN6B
34	1	3.5	2.4	25	150	80	225	W34FT350	WN6A
36	1	2.1	1.4	25	150	81	185	W36FT210	WN6B
36	1	3.3	2.3	25	150	80	225	W36FT330	WN6A
38	1	2	1.4	25	150	81	185	W38FT200	WN6B
38	1	3.1	2.2	25	150	80	225	W38FT310	WN6A
40	1	1.9	1.3	25	150	82	185	W40FT190	WN6B
40	1	3	2.1	25	150	81	225	W40FT300	WN6A
42	1	1.8	1.2	25	150	82	185	W42FT180	WN6B
42	1	2.8	1.9	25	150	81	225	W42FT280	WN6A
45	1	1.7	1.2	25	150	82	185	W45FT170	WN6B
45	1	2.6	1.8	25	150	81	225	W45FT260	WN6A
48	1	1.6	1.1	25	150	82	185	W48FT160	WN6B
48	1	2.5	1.7	25	150	81	225	W48FT250	WN6A



Case Size	Number of fans on rear panel	Approx. Weight
WN6A	1	1 lb. 6 oz.
WN6B	0	1 lb. 4 oz.

Acopian

Narrow Profile

SWITCHING REGULATED (to 288 watts) (Power Factor Correction and Universal Input)

DC output (accepts either AC or DC input)

NEW!! UL508 Listed models now available

- Shipped Within 3 Days
- U.L. Recognized (3.3v to 48v models)
- NEW!! UL508 Listed units available
- CE (3.3v to 48v models)
- Five Year Warranty



Small yet providing up to 288 watts of well regulated DC, these supplies can be mounted in spaces where many others won't fit. A metal case fully encloses all circuitry and provides EMI shielding and an AC input filter attenuates both common and differential mode noise conducted to the line.

STANDARD FEATURES

- Universal input
- Power Factor Correction
- High surge current capability
- 'Soft start' operation

SPECIFICATIONS

Input Voltage: 90-265 VAC, 49-420 Hz, single phase, or 110-350 Vdc. DC input may be connected without regard to polarity.

Inrush current: Cold start, (thermistor limiter) 20A peak @115 VAC; 40A peak @ 230 VAC.

Startup Time: 800 mS typical.

Input Undervoltage: An input of less than 90 VAC will not damage power supply.

Power Factor: 0.99 typical at 115 VAC, 60Hz and full load. Complies with EN61000-3-2.

Regulation:
Line: ±0.05%
Load: ±0.05%

Output Voltage Remote Adjustment: The output voltage may be controlled by means of an external 1K potentiometer.

Polarity: Output is floating and may be used in either polarity.

Drift: ±0.1% typical over 8 hours, after 30 minute warmup.

Temperature Coefficient: ±0.02%/°C (Typical).

Holdup Time: 16 mS minimum.

Transient Response: 300 µS to return to ±1% of output setting. Maximum of ±3% output excursion following a load step change from 50% to 100%.

Remote Sensing: Compensates up to 0.5 volt drop per output line, within the limits of the output voltage adjustment range.

Overload/Short Circuit Protection: Current limiting with automatic recovery.

Overvoltage Protection: Latches power supply OFF, reset by momentarily removing AC input power.

Output Inhibit: Applying between +3 and +25 Vdc to the inhibit terminal will disable the supply.

EMI: Complies with FCC Part 15 and EN55022, Class A.

Output Indicator (DC on): Green LED.

Thermal Protection: Thermostat, self-resetting.

Efficiency: See table. (Typical, at nominal input voltage, with full load.)

Ambient Operating Temperature: 0 to +71°C.

Storage Temperature: –40 to +85°C.

Cooling: Forced-air cooled; air enters rear of power supply and exits from top.

Switching Frequency: 100 kHz (Typical).

Dielectric Withstand Voltage		Isolation
Input to output:	4242 Vdc	500 VAC
Input to case:	2121 Vdc	500 VAC
Output to case:	750 Vdc	300 VAC

Internal Failure Protection: provided by internal fuse.

Mounting: Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket. To mount from the power supply side of the mounting surface or for DIN rail mounting, see accessory Mounting Kits on page 91.

NEW!! OPTIONS

UL508 Listed (3.3v to 48v models): These power supplies have been tested for compliance with the electrical requirements of UL508, and can be marked in compliance to UL508 at no additional cost. To order, add suffix "U" to model number.

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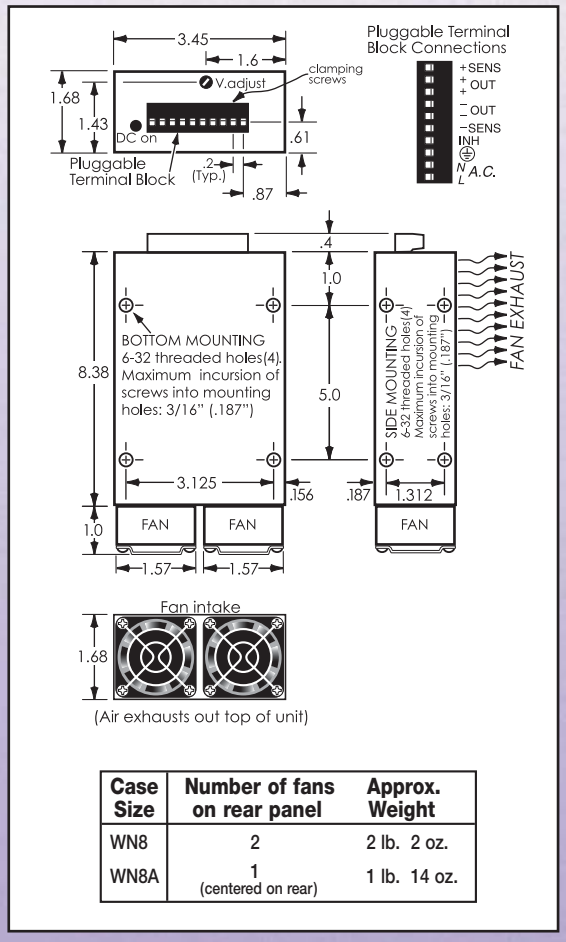
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Narrow Profile SWITCHING REGULATED (to 288 watts)

Nominal Output Voltage	Adjust Range ± V	Output Current Amps. at 40°C	Output Current Amps. at 71°C	Ripple mV (@ 25 MHz BW) RMS	Ripple mV (@ 25 MHz BW) P-P	Effic. (Typ.) %	($) Price	Model	Case Size
3.3	.5	18.5	12.9	10	50	66	275	W3.3NT1850	WN8A
3.3	.5	25	17.5	10	50	66	350	W3.3NT2500	WN8
5	.5	18.5	12.9	10	50	69	275	W5NT1850	WN8A
5	.5	25	17.5	10	50	69	350	W5NT2500	WN8
6	.5	15.4	10.7	10	50	70	275	W6NT1540	WN8A
6	.5	24	16.8	10	50	70	350	W6NT2400	WN8
7	.5	15	10.5	10	50	70	275	W7NT1500	WN8A
7	.5	23	16.1	10	50	70	350	W7NT2300	WN8
8	.5	14.7	10.3	15	100	72	275	W8NT1470	WN8A
8	.5	23	16.1	15	100	72	350	W8NT2300	WN8
9	.5	14.4	10	15	100	72	275	W9NT1440	WN8A
9	.5	23	16.1	15	100	72	350	W9NT2300	WN8
10	.5	14.1	9.8	15	100	73	275	W10NT1410	WN8A
10	.5	22	15.4	15	100	73	350	W10NT2200	WN8
12	.5	13.7	9.6	15	100	75	275	W12NT1370	WN8A
12	.5	22	15.4	15	100	75	350	W12NT2200	WN8
13	.5	12.3	8.6	15	100	75	275	W13NT1230	WN8A
13	.5	20	14	15	100	75	350	W13NT2000	WN8
14	.5	11.7	8.2	15	100	75	275	W14NT1170	WN8A
14	.5	19	13.3	15	100	75	350	W14NT1900	WN8
15	.5	11.1	7.8	15	100	75	275	W15NT1110	WN8A
15	.5	18	12.6	15	100	75	350	W15NT1800	WN8
16	.5	10.2	7.1	15	100	75	275	W16NT1020	WN8A
16	.5	16.5	11.5	15	100	75	350	W16NT1650	WN8
18	.5	9.2	6.4	15	100	77	275	W18NT920	WN8A
18	.5	15	10.5	15	100	77	350	W18NT1500	WN8
20	.5	8.6	6	15	100	78	275	W20NT860	WN8A
20	.5	14	9.8	15	100	78	350	W20NT1400	WN8
22	.5	8	5.6	15	100	78	275	W22NT800	WN8A
22	.5	13	9.1	15	100	78	350	W22NT1300	WN8
24	.5	7.5	5.3	15	100	80	275	W24NT750	WN8A
24	.5	12	8.4	15	100	80	350	W24NT1200	WN8
25	.5	7.2	5	15	100	80	275	W25NT720	WN8A
25	.5	11.2	7.8	15	100	80	350	W25NT1120	WN8
26	.5	6.9	4.8	15	100	80	275	W26NT690	WN8A
26	.5	10.6	7.4	15	100	80	350	W26NT1060	WN8
28	.5	6.2	4.3	15	100	80	275	W28NT620	WN8A
28	.5	10	7	15	100	80	350	W28NT1000	WN8
30	.5	5.6	3.9	25	150	80	275	W30NT560	WN8A
30	.5	9	6.3	25	150	80	350	W30NT900	WN8
32	1	5.4	3.7	25	150	80	275	W32NT540	WN8A
32	1	8.6	6	25	150	80	350	W32NT860	WN8
34	1	5.2	3.6	25	150	80	275	W34NT520	WN8A
34	1	8.3	5.8	25	150	80	350	W34NT830	WN8
36	1	5	3.5	25	150	80	275	W36NT500	WN8A
36	1	8	5.6	25	150	80	350	W36NT800	WN8
38	1	4.7	3.3	25	150	80	275	W38NT470	WN8A
38	1	7.5	5.2	25	150	80	350	W38NT750	WN8
40	1	4.3	3	25	150	81	275	W40NT430	WN8A
40	1	7	4.9	25	150	81	350	W40NT700	WN8
42	1	4.1	2.8	25	150	81	275	W42NT410	WN8A
42	1	6.8	4.7	25	150	81	350	W42NT680	WN8
45	1	3.9	2.7	25	150	81	275	W45NT390	WN8A
45	1	6.4	4.4	25	150	81	350	W45NT640	WN8
48	1	3.7	2.6	25	150	81	275	W48NT370	WN8A
48	1	6	4.2	25	150	81	350	W48NT600	WN8

Nominal Output Voltage	Adjust Range ± V	Output Current Amps. at 40°C	Output Current Amps. at 71°C	Ripple mV (@ 25 MHz BW) RMS	Ripple mV (@ 25 MHz BW) P-P	Effic. (Typ.) %	($) Price	Model	Case Size
50*	1	3.3	2.3	50	150	80	275	W50NT330	WN8A
50*	1	5	3.5	50	150	80	350	W50NT500	WN8
55*	1	3	2.1	50	150	80	275	W55NT300	WN8A
55*	1	4.5	3.2	50	150	80	350	W55NT450	WN8
60*	1	2.8	1.9	50	150	80	275	W60NT280	WN8A
60*	1	4.2	2.9	50	150	80	350	W60NT420	WN8
70*	1	2.4	1.7	67	200	80	275	W70NT240	WN8A
70*	1	3.6	2.5	67	200	80	350	W70NT360	WN8
75*	1	2.2	1.5	67	200	80	275	W75NT220	WN8A
75*	1	3.3	2.3	67	200	80	350	W75NT330	WN8
80*	1	2.1	1.4	67	200	80	275	W80NT210	WN8A
80*	1	3.1	2.2	67	200	80	350	W80NT310	WN8
90*	1	1.8	1.3	100	300	80	275	W90NT180	WN8A
90*	1	2.8	1.9	100	300	80	350	W90NT280	WN8
100*	1	1.7	1.2	150	450	80	275	W100NT170	WN8A
100*	1	2.5	1.8	150	450	80	350	W100NT250	WN8
110*	1	1.5	1.1	150	450	80	275	W110NT150	WN8A
110*	1	2.3	1.6	150	450	80	350	W110NT230	WN8
120*	1	1.4	1	150	450	80	275	W120NT140	WN8A
120*	1	2.1	1.5	150	450	80	350	W120NT210	WN8
125*	1	1.3	0.9	150	450	80	275	W125NT130	WN8A
125*	1	2	1.4	150	450	80	350	W125NT200	WN8

*Not CE or U.L. recognized when this catalog was published.



Case Size	Number of fans on rear panel	Approx. Weight
WN8	2	2 lb. 2 oz.
WN8A	1 (centered on rear)	1 lb. 14 oz.

Gold Box

SINGLE OUTPUT

LINEAR REGULATED
AC-DC

SERIES A (High Performance)



- Shipped Within 3 Days
- All Models U.L. Recognized
- CE
- Five Year Warranty

Series A power supplies offer unusually high performance—many models have regulation of ±0.005%. Electronic current limiting and provision for remote voltage sensing are standard features; overvoltage protection is available as a built-in option. Rugged extruded aluminum cases include threaded mounting holes on bottom, back, and side, permitting mounting in any position.

SERIES A: HIGH PERFORMANCE POWER SUPPLIES

STANDARD FEATURES

- Provision for remote sensing and/or external output adjustment
- Short circuit proof with automatic recovery (electronic current limiting)
- Can be mounted on any of three surfaces (case sizes H8, H11 and H16; two surfaces)

SPECIFICATIONS

Input Voltage: 105-125 VAC, 50-400 Hz, single phase.

Output Specifications: See pages 48 and 49. Series A supplies have model numbers beginning with the letter A.

Remote Voltage Adjustment/Sensing: Provision for sensing the output voltage across the load, so that drops in the load line are compensated, is a standard feature. This feature also permits the use of an externally located potentiometer to adjust output voltage.

Polarity: Output is floating; either positive or negative terminal may be grounded or floated up to 300 volts above ground.

Temperature Coefficient: 0.015%/°C (Typical).

Ambient Operating Temperature: –20 to +71°C.

Storage Temperature: –55 to +85°C.

Response Time: Less than 20 microseconds.

OPTIONS

Under/Overvoltage Alarm Contacts: To control a horn or light, or to signal your PLC. Available on models with nominal outputs of 5 Vdc to 125 Vdc. SPDT contacts switch if the power supply's output deviates by

1.0 volt or more: 5 volt models.
2.0 volts or more: 6 to 48 volt models.
3.0 volts or more: 50 to 125 volt models.

Contact ratings: 120 VAC, 8A / 60 Vdc, 1A. (To comply with SELV requirements, limit switched voltage to 60Vdc/42 VAC.) To order, add suffix "L" to model number and $35.00 to price. Models with this option are not yet UL Recognized/CE certified.

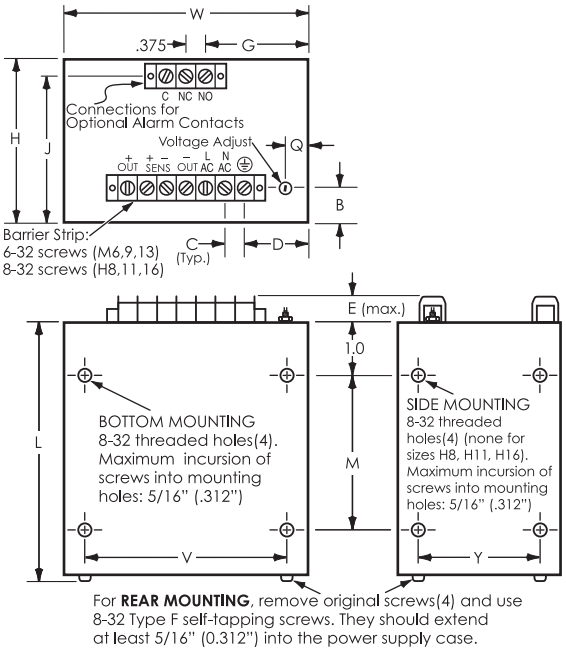
Overvoltage Protection: An internal preset overvoltage protector is available. To order, add prefix "V" to the model number, and increase standard price as follows:

Outputs of	1.5-70V	75-150V
All case sizes except H16	$25.00	$35.00
Case size H16	.75.00	85.00

Terminal Strip Cover: Clips on. To order, add suffix "M" to model number and $5.00 to price.

230 Volt Input: All models can be alternately furnished for operation on inputs of 210-250 VAC, 50-400 Hz. To order, add suffix "–230" to model number and $25.00 to price. (For models in case sizes H8, H11 and H16, add $40.00.) The "–230" option requires two additional days.

Mounting: Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket. To mount from the power supply side of the mounting surface or for DIN rail mounting, see accessory Mounting Kits on page 91.



Case Size	L	W	H	M	V	Y	Q	B	E	C	D	G	J	Approx. Weight
M6	6.59	5.12	3.44	4.0	4.5	3.0	.5	.75	.58	.375	1.44	2.19	3.09	4 lb. 4 oz.
M9	9.25	5.12	3.44	6.0	4.5	3.0	.5	.75	.58	.375	1.44	2.19	3.09	7 lb. 4 oz.
M13	13.25	5.12	3.44	10.0	4.5	3.0	.5	.75	.58	.375	1.44	2.19	3.09	11 lb.
H8	8.75	7.37	5.12	6.0	6.75	4.56	1.12	1.25	.78	.562	2.25	3.57	4.72	15 lb. 8 oz.
H11	11.25	7.37	5.12	8.0	6.75	4.56	1.12	1.25	.78	.562	2.25	3.57	4.72	18 lb. 4 oz.
H16	16.00	7.37	5.12	11.0	6.75	4.56	1.12	1.25	.78	.562	2.25	3.57	4.72	26 lb.

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Gold Box

SINGLE OUTPUT

LINEAR REGULATED
AC-DC

SERIES B (General Purpose)

- Shipped Within 3 Days
- All Models U.L. Recognized
- CE
- Five Year Warranty

Series B power supplies are ideal for powering digital circuitry, test sets, instrument bridges, and process control transmitters. Many models have regulation of ±0.1% or better. All components are generously derated to insure a long and trouble-free life, and they use the same rugged construction as the Series A line. Overvoltage protection and other options are available.

SERIES B: GENERAL PURPOSE POWER SUPPLIES

STANDARD FEATURES

- Short circuit proof (electronic current limiting)
- May be mounted on any of three surfaces
- Completely serviceable

SPECIFICATIONS

Input Voltage: 105-125 VAC, 50-400 Hz, single phase.

Output Specifications: See pages 48 and 49. Series B supplies have model numbers beginning with the letter B.

Remote Voltage Adjustment/Sensing: Available as an option. See below.

Polarity: Output is floating; either positive or negative terminal may be grounded or floated up to 300 volts above ground.

Temperature Coefficient: 0.02%/°C (Typical).

Ambient Operating Temperature: 0 to +71°C.

Storage Temperature: –55 to +85°C.

OPTIONS

Under/Overvoltage Alarm Contacts: To control a horn or light, or to signal your PLC. Available on models with nominal outputs of 5 Vdc to 125 Vdc. SPDT contacts switch if the power supply's output deviates by

1.0 volt or more: 5 volt models.
2.0 volts or more: 6 to 48 volt models.
3.0 volts or more: 50 to 125 volt models.

Contact ratings: 120 VAC, 8A / 60 Vdc, 1A. (To comply with SELV requirements, limit switched voltage to 60Vdc/42 VAC.) To order, add suffix "L" to model number and $35.00 to price. Models with this option are not yet UL Recognized/CE certified.

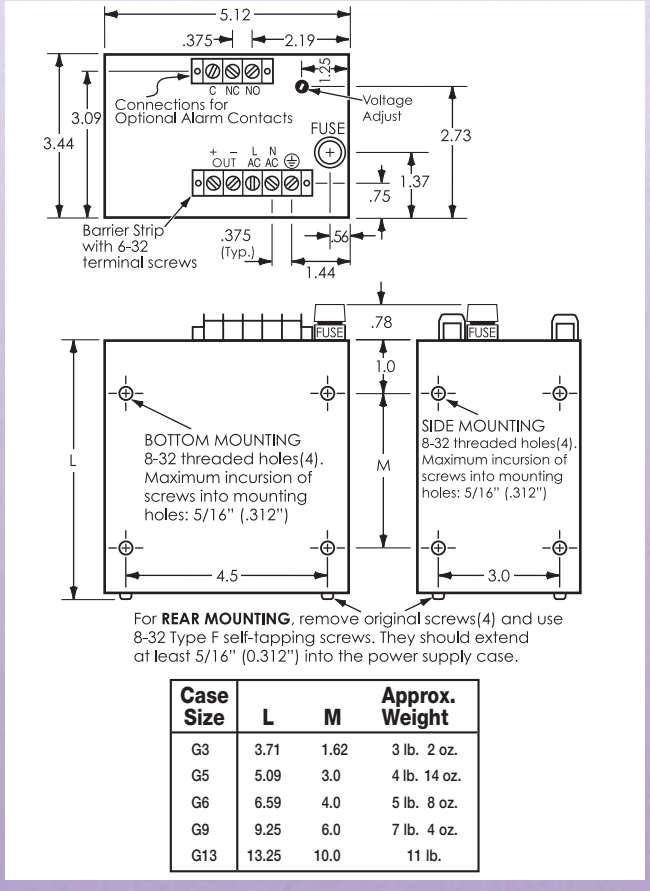
Overvoltage Protection: An internal preset overvoltage protector is available. To order, add prefix "V" to the model number, and add $25.00 to the standard price of models with outputs of 1.5 to 70 volts; $35.00, for 75 to 200 volt outputs.

Remote Voltage Sensing: Provision for sensing the output voltage across the load, so that drops in the load lines are compensated, is available on all models. (This option also permits the use of an externally located potentiometer to adjust output voltage.) To order, add prefix "R" to the model number. No increase in price.

Terminal Strip Cover: Clips on. To order, add suffix "M" to model number and $5.00 to price.

230 Volt Input: All models can be alternately furnished for operation on inputs of 210-250 VAC, 50-400 Hz. To order, add suffix "–230" to model number and $25.00 to price. The "–230" option requires two additional days.

Mounting: Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket. To mount from the power supply side of the mounting surface or for DIN rail mounting, see accessory Mounting Kits on page 91.



Case Size	L	M	Approx. Weight
G3	3.71	1.62	3 lb. 2 oz.
G5	5.09	3.0	4 lb. 14 oz.
G6	6.59	4.0	5 lb. 8 oz.
G9	9.25	6.0	7 lb. 4 oz.
G13	13.25	10.0	11 lb.

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SERIES A & B

Nominal Output Voltage	Adjust ±V	Output Current Amps. at 40°C	55°C	71°C	Regulation Load ± %*	Line ± %*	Ripple mV RMS	($) Price	Model	Case Size
1.5	.5	6.0	4.3	3.5	.005	.005	.250	$245	A1.5MT600	M6
1.5	.5	9.0	7.2	5.5	.005	.005	.250	$280	A1.5MT900	M9
1.5	.5	12.0	10.0	8.0	.005	.005	.250	$335	A1.5MT1200	M13
1.5	.5	22.0	18.5	15.5	.005	.005	.250	$415	A1.5H2200	H11
1.5	.5	32.0	27.0	22.5	.005	.005	.250	$495	A1.5H3200	H16
2	.5	6.0	4.3	3.5	.005	.005	.250	$245	A2MT600	M6
2	.5	12.0	10.0	8.0	.005	.005	.250	$335	A2MT1200	M13
3	.5	.500	.500	.500	.2	.1	1	$115	B3G50	G3
3	.5	1.2	1.1	1.0	.2	.1	1	$140	B3G120	G3
3	.5	2.1	2.1	2.0	.5	.1	1	$160	B3G210	G5
3	.5	4.0	3.5	3.0	.5	.1	1.5	$200	B3G400	G6
3	.5	6.0	4.3	3.5	.005	.005	.250	$245	A3MT600	M6
3	.5	9.0	7.2	5.5	.005	.005	.250	$280	A3MT900	M9
3	.5	12.0	10.0	8.0	.005	.005	.250	$335	A3MT1200	M13
3	.5	17.0	14.5	12.0	.005	.005	.250	$370	A3H1700	H8
3	.5	20.0	16.5	13.5	.005	.005	.250	$415	A3H2000	H11
3	.5	30.0	25.0	20.0	.005	.005	.250	$495	A3H3000	H16
3.3	.5	.500	.500	.500	.2	.1	1	$115	B3.3G50	G3
3.3	.5	1.2	1.1	1.0	.2	.1	1	$140	B3.3G120	G3
3.3	.5	2.1	2.1	2.0	.5	.1	1	$160	B3.3G210	G5
3.3	.5	4.0	3.5	3.0	.5	.1	1.5	$200	B3.3G400	G6
3.3	.5	6.0	4.3	3.5	.005	.005	.250	$245	A3.3MT600	M6
3.3	.5	7.0	5.9	4.9	.5	.1	1.5	$250	B3.3G700	G9
3.3	.5	9.0	7.2	5.5	.005	.005	.250	$285	A3.3MT900	M9
3.3	.5	12.0	10.0	8.0	.005	.005	.250	$335	A3.3MT1200	M13
3.3	.5	17.0	14.5	12.0	.005	.005	.250	$370	A3.3H1700	H8
3.3	.5	22.0	18.5	15.5	.005	.005	.250	$415	A3.3H2200	H11
3.3	.5	32.0	27.0	22.5	.005	.005	.250	$495	A3.3H3200	H16
5	.5	.500	.500	.500	.1	.1	1	$115	B5G50	G3
5	.5	1.2	1.1	1.0	.1	.1	1	$140	B5G120	G3
5	.5	1.7	1.5	1.3	.2	.1	1.5	$150	B5G170	G3
5	.5	2.1	2.1	2.0	.2	.1	1.5	$160	B5G210	G5
5	.5	4.0	3.5	3.0	.3	.1	1.5	$190	B5G400	G6
5	.5	5.0	4.4	3.0	.4	.1	1.5	$205	B5G500	G6
5	.5	5.1	3.6	2.6	.005	.005	.250	$230	A5MT510	M6
5	.5	6.0	4.3	3.5	.005	.005	.250	$250	A5MT600	M6
5	.5	8.0	7.0	5.0	.4	.1	1.5	$255	B5G800	G9
5	.5	9.0	7.2	5.5	.005	.005	.250	$285	A5MT900	M9
5	.5	10.0	9.0	7.0	.4	.1	1.5	$290	B5G1000	G13
5	.5	12.0	10.0	8.0	.005	.005	.250	$335	A5MT1200	M13
5	.5	17.0	14.5	12.0	.005	.005	.250	$370	A5H1700	H8
5	.5	22.0	18.5	15.0	.005	.005	.250	$415	A5H2200	H11
5	.5	32.0	27.0	22.0	.005	.005	.250	$495	A5H3200	H16
6	1	.500	.500	.500	.1	.1	1	$115	B6G50	G3
6	.5	1.2	1.1	1.0	.1	.1	1	$140	B6G120	G3
6	.5	1.7	1.5	1.3	.2	.1	1.5	$150	B6G170	G3
6	.5	3.2	3.1	3.0	.3	.1	1.5	$185	B6G320	G6
6	.5	4.9	3.5	2.5	.005	.005	.250	$205	A6MT490	M6
6	.5	6.0	4.5	3.5	.005	.005	.250	$240	A6MT600	M6
6	.5	8.5	7.5	5.2	.005	.005	.250	$285	A6MT850	M9
6	.5	11.0	9.3	7.5	.005	.005	.250	$335	A6MT1100	M13
6	.5	16.0	13.6	11.2	.005	.005	.250	$375	A6H1600	H8
6	.5	21.0	17.0	14.0	.005	.005	.250	$420	A6H2100	H11
6	.5	28.0	23.0	19.0	.005	.005	.250	$495	A6H2800	H16
7	1	.500	.500	.500	.1	.05	1	$120	B7G50	G3
7	1	1.0	1.0	1.0	.1	.1	1	$150	B7G100	G3
7	.5	2.0	2.0	2.0	.2	.1	1.5	$170	B7G200	G5
7	.5	3.0	2.7	2.5	.3	.1	1.5	$195	B7G300	G6
7	.5	5.0	4.0	3.0	.005	.005	.250	$240	A7MT500	M6
7	.5	6.5	5.2	4.0	.4	.1	1.0	$250	B7G650	G9
7	.5	8.0	6.5	5.0	.005	.005	.250	$290	A7MT800	M9
7	.5	10.0	8.0	7.0	.4	.1	1.5	$300	B7G1000	G13
7	.5	10.0	8.8	7.0	.005	.005	.250	$335	A7MT1000	M13
8	1	.500	.500	.500	.1	.05	1	$120	B8G50	G3
8	1	1.0	1.0	1.0	.1	.1	1	$150	B8G100	G3
8	.5	2.0	2.0	2.0	.2	.1	1.5	$170	B8G200	G5
8	.5	3.0	2.7	2.5	.2	.1	1.5	$195	B8G300	G6
8	.5	5.0	4.0	3.5	.005	.005	.250	$240	A8MT500	M6
8	.5	6.5	5.2	4.0	.3	.1	1.5	$260	B8G650	G9
8	.5	8.0	6.5	5.0	.005	.005	.250	$290	A8MT800	M9
8	.5	10.0	8.0	7.0	.4	.1	1.5	$300	B8G1000	G13
8	.5	10.5	8.8	7.0	.005	.005	.250	$335	A8MT1050	M13
8	.5	20.0	16.8	13.5	.005	.005	.250	$440	A8H2000	H11
8	.5	28.0	23.0	19.0	.005	.005	.250	$495	A8H2800	H16
9	1	.500	.500	.500	.1	.05	1	$120	B9G50	G3
9	1	1.0	1.0	1.0	.1	.1	1	$150	B9G100	G3
9	.5	2.0	2.0	2.0	.2	.1	1.5	$170	B9G200	G5
9	.5	3.0	2.7	2.5	.2	.1	1.5	$195	B9G300	G6
9	.5	6.5	5.2	4.0	.3	.1	1.5	$260	B9G650	G9
9	.5	10.0	8.3	7.0	.005	.005	.250	$335	A9MT1000	M13

*or 2 mv, whichever is greater

Nominal Output Voltage	Adjust ±V	Output Current Amps. at 40°C	55°C	71°C	Regulation Load ± %*	Line ± %*	Ripple mV RMS	($) Price	Model	Case Size
10	1	.500	.500	.500	.1	.05	1	$115	B10G50	G3
10	1	1.0	1.0	1.0	.1	.1	1	$140	B10G100	G3
10	.5	2.0	2.0	2.0	.2	.1	1.5	$170	B10G200	G5
10	.5	3.0	2.7	2.5	.2	.1	1.5	$195	B10G300	G6
10	.5	4.5	3.6	2.7	.005	.005	.250	$240	A10MT450	M6
10	.5	6.0	5.0	4.0	.3	.1	1.5	$260	B10G600	G9
10	.5	7.5	6.0	4.5	.005	.005	.250	$295	A10MT750	M9
10	.5	10.0	8.3	7.0	.4	.1	1.5	$300	B10G1000	G13
10	.5	10.0	8.3	7.0	.005	.005	.250	$335	A10MT1000	M13
10	.5	14.0	11.9	9.8	.005	.005	.250	$390	A10H1400	H8
10	.5	18.0	15.0	12.0	.005	.005	.250	$440	A10H1800	H11
10	.5	25.0	20.0	16.5	.005	.005	.250	$495	A10H2500	H16
12	1	.500	.500	.500	.1	.05	1	$115	B12G50	G3
12	1	1.0	1.0	1.0	.1	.1	1	$140	B12G100	G3
12	.5	2.0	1.7	1.5	.2	.1	1.5	$165	B12G200	G5
12	.5	3.0	2.7	2.5	.2	.1	1.5	$190	B12G300	G6
12	.5	3.8	3.3	2.6	.2	.1	1.5	$200	B12G380	G6
12	.5	4.0	3.3	2.6	.005	.005	.250	$235	A12MT400	M6
12	.5	6.5	5.3	4.0	.3	.1	1.5	$260	B12G650	G9
12	.5	6.5	5.3	4.0	.005	.005	.250	$290	A12MT650	M9
12	.5	9.0	7.5	6.0	.4	.1	1.5	$300	B12G900	G13
12	.5	9.0	7.5	6.0	.005	.005	.250	$335	A12MT900	M13
12	.5	13.0	11.0	9.1	.005	.005	.250	$390	A12H1300	H8
12	.5	17.0	14.3	11.5	.005	.005	.250	$440	A12H1700	H11
12	.5	21.0	17.5	14.5	.005	.005	.250	$495	A12H2100	H16
13	1	.500	.500	.500	.1	.05	1	$130	B13G50	G3
13	1	1.5	1.4	1.3	.1	.1	1.5	$165	B13G150	G3
13	.5	2.0	2.0	2.0	.2	.1	1.5	$185	B13G200	G5
13	.5	3.0	2.7	2.5	.2	.1	1.5	$205	B13G300	G6
13	.5	3.5	3.0	2.5	.005	.005	.250	$240	A13MT350	M6
13	.5	5.0	4.5	4.0	.2	.1	1.5	$255	B13G500	G9
13	.5	8.0	7.5	7.0	.3	.1	1.5	$300	B13G800	G13
13	.5	8.0	7.5	7.0	.005	.005	.250	$335	A13MT800	M13
14	1	.500	.500	.500	.1	.05	1	$130	B14G50	G3
14	1	1.5	1.4	1.3	.1	.1	1.5	$165	B14G150	G3
14	.5	2.0	2.0	2.0	.2	.1	1.5	$185	B14G200	G5
14	.5	3.0	2.7	2.5	.2	.1	1.5	$205	B14G300	G6
14	.5	3.0	2.7	2.5	.005	.005	.250	$235	A14MT300	M6
14	.5	5.0	4.5	4.0	.2	.1	1.5	$250	B14G500	G9
14	.5	7.0	6.5	6.0	.3	.1	1.5	$300	B14G700	G13
14	.5	8.0	7.5	7.0	.005	.005	.250	$335	A14MT800	M13
15	1	.750	.750	.750	.1	.1	1	$135	B15G75	G3
15	1	1.0	1.0	1.0	.1	.1	1	$140	B15G100	G3
15	1	1.5	1.4	1.3	.1	.1	1.5	$155	B15G150	G3
15	.5	2.0	1.7	1.5	.1	.1	1.5	$170	B15G200	G5
15	.5	3.0	2.8	2.5	.1	.1	1.5	$195	B15G300	G6
15	.5	3.0	2.8	2.5	.005	.005	.250	$215	A15MT300	M6
15	.5	4.2	3.8	3.0	.15	.1	1.5	$235	B15G420	G9
15	.5	5.5	4.7	4.0	.005	.005	.250	$290	A15MT550	M9
15	.5	6.0	5.0	4.0	.2	.1	1.5	$280	B15G600	G9
15	.5	7.0	6.0	5.0	.2	.1	1.5	$300	B15G700	G13
15	.5	8.0	6.5	5.5	.005	.005	.250	$335	A15MT800	M13
15	.5	11.5	9.7	8.0	.005	.005	.250	$390	A15H1150	H8
15	.5	15.0	12.8	10.5	.005	.005	.250	$435	A15H1500	H11
15	.5	19.0	16.3	13.5	.005	.005	.250	$495	A15H1900	H16
16	1	.300	.300	.300	.05	.05	1	$100	B16G30	G3
16	.5	1.0	1.0	1.0	.1	.1	1	$150	B16G100	G3
16	.5	3.0	2.5	2.0	.15	.1	1	$230	B16G300	G9
16	.5	5.0	5.0	5.0	.2	.1	1.5	$290	B16G500	G9
16	.5	6.5	6.0	5.5	.005	.005	.250	$335	A16MT650	M13
18	1	.300	.300	.300	.05	.05	1	$100	B18G30	G3
18	1	.750	.750	.750	.1	.1	1	$135	B18G75	G3
18	.5	1.1	1.1	1.0	.1	.1	1	$150	B18G110	G5
18	.5	2.1	2.0	1.8	.1	.1	1	$185	B18G210	G5
18	.5	2.1	2.1	2.0	.005	.005	.250	$205	A18MT210	M6
18	.5	3.0	2.8	2.5	.15	.1	1	$230	B18G300	G9
18	.5	4.5	4.0	3.5	.005	.005	.250	$280	A18MT450	M9
18	.5	6.5	6.0	5.5	.005	.005	.250	$335	A18MT650	M13
18	.5	14.0	12.0	10.0	.005	.005	.250	$440	A18H1400	H11
18	.5	18.0	15.5	13.0	.005	.005	.250	$495	A18H1800	H16
20	1	.300	.300	.300	.05	.05	1	$100	B20G30	G3
20	1	.750	.750	.750	.1	.05	1	$135	B20G75	G3
20	1	1.1	1.1	1.0	.1	.1	1	$150	B20G110	G5
20	.5	1.7	1.7	1.5	.1	.1	1.5	$165	B20G170	G5
20	.5	2.0	2.0	2.0	.005	.005	.250	$215	A20MT200	M6
20	.5	2.7	2.0	1.2	.15	.1	1.5	$230	B20G270	G6
20	.5	4.0	3.5	3.0	.005	.005	.250	$280	A20MT400	M9
20	.5	5.0	5.0	5.0	.15	.1	1.5	$295	B20G500	G13
20	.5	6.0	5.5	5.0	.005	.005	.250	$335	A20MT600	M13
20	.5	9.5	8.0	6.6	.005	.005	.250	$390	A20H950	H8
20	.5	13.0	11.3	9.5	.005	.005	.250	$440	A20H1300	H11
20	.5	16.0	14.0	12.0	.005	.005	.250	$495	A20H1600	H16

*or 2 mv, whichever is greater

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SERIES A & B

Nominal Output Voltage	Adjust ±V	Output Current Amps. at 40°C	55°C	71°C	Regulation Load ± %	Line ± %	Ripple mV RMS	($) Price	Model	Case Size
24	1	.300	.300	.300	.05	.05	1	$100	B24G30	G3
24	1	.750	.750	.750	.1	.05	1	$140	B24G75	G3
24	1	1.1	1.1	1.0	.1	.1	1.5	$155	B24G110	G5
24	.5	1.7	1.7	1.5	.1	.1	1.5	$170	B24G170	G5
24	.5	2.1	2.0	2.0	.1	.1	1.5	$190	B24G210	G5
24	.5	2.1	2.0	2.0	.005	.005	.250	$225	A24MT210	M6
24	.5	3.5	3.0	2.5	.15	.1	1.5	$245	B24G350	G9
24	.5	3.5	3.0	2.5	.005	.005	.250	$290	A24MT350	M9
24	.5	5.0	5.0	5.0	.15	.1	1.5	$300	B24G500	G13
24	.5	5.5	5.0	4.5	.005	.005	.250	$335	A24MT550	M13
24	.5	8.5	7.2	5.9	.005	.005	.250	$390	A24H850	H8
24	.5	12.0	10.5	9.0	.005	.005	.250	$440	A24H1200	H11
24	.5	15.0	13.0	11.0	.005	.005	.250	$495	A24H1500	H16
25	1	.300	.300	.300	.05	.05	1	$120	B25G30	G3
25	1	.750	.750	.750	.1	.05	1	$145	B25G75	G3
25	1	1.1	1.1	1.1	.1	.1	1.5	$165	B25G110	G5
25	.5	1.7	1.7	1.5	.1	.1	1.5	$195	B25G170	G5
25	.5	2.1	2.1	2.0	.1	.1	1.5	$200	B25G210	G5
25	.5	3.5	3.0	2.5	.15	.1	1.5	$250	B25G350	G9
25	.5	5.0	5.0	5.0	.15	.1	1.5	$310	B25G500	G13
28	1	.300	.300	.300	.05	.05	1	$120	B28G30	G3
28	1	.500	.500	.500	.05	.05	1	$135	B28G50	G3
28	1	.800	.800	.800	.1	.05	1	$145	B28G80	G5
28	1	1.1	1.1	1.0	.1	.05	1	$160	B28G110	G5
28	.5	1.8	1.6	1.5	.1	.1	1.5	$190	B28G180	G5
28	.5	2.1	2.1	2.0	.1	.1	1.5	$200	B28G210	G5
28	.5	2.1	2.1	2.0	.005	.005	.250	$230	A28MT210	M6
28	.5	3.0	2.7	2.5	.15	.1	1.5	$240	B28G300	G9
28	.5	3.0	2.7	2.5	.005	.005	.250	$270	A28MT300	M9
28	.5	5.0	5.0	5.0	.15	.1	1.5	$300	B28G500	G13
28	.5	5.0	5.0	5.0	.005	.005	.250	$335	A28MT500	M13
28	.5	8.0	6.8	5.6	.005	.005	.250	$390	A28H800	H8
28	.5	11.0	9.5	8.0	.005	.005	.250	$440	A28H1100	H11
28	.5	14.0	12.0	10.0	.005	.005	.250	$495	A28H1400	H16
30	1	.300	.300	.300	.05	.05	1	$120	B30GT30	G3
30	1	.500	.500	.500	.05	.05	1	$140	B30GT50	G3
30	1	1.1	1.1	1.0	.1	.1	1	$170	B30GT110	G5
30	.5	1.7	1.6	1.5	.1	.1	1.5	$190	B30GT170	G5
30	.5	2.1	2.1	2.0	.1	.1	1.5	$205	B30G210	G6
30	.5	2.1	2.1	2.0	.005	.005	.250	$235	A30MT210	M6
30	.5	3.0	2.7	2.5	.005	.005	.250	$275	A30MT300	M9
30	.5	5.0	5.0	5.0	.15	.1	1.5	$305	B30GT500	G13
30	.5	5.0	5.0	5.0	.005	.005	.250	$335	A30MT500	M13
30	.5	7.5	6.3	5.2	.005	.005	.250	$395	A30H750	H8
30	.5	10.0	9.0	8.0	.005	.005	.250	$450	A30H1000	H11
30	.5	14.0	12.0	10.0	.005	.005	.250	$510	A30H1400	H16
32	1	.300	.300	.300	.05	.05	1	$120	B32GT30	G3
32	1	.500	.500	.500	.05	.05	1	$140	B32GT50	G3
32	1	1.0	1.0	1.0	.1	.1	1	$170	B32GT100	G5
32	1	1.5	1.5	1.5	.1	.1	1.5	$200	B32GT150	G5
32	.5	1.8	1.6	1.3	.005	.005	.250	$245	A32MT180	M6
32	.5	2.5	2.1	1.7	.005	.005	.250	$290	A32MT250	M9
32	.5	9.0	7.5	6.0	.005	.005	.250	$465	A32HT900	H11
34	1	.300	.300	.300	.05	.05	1	$120	B34GT30	G3
34	1	.800	.800	.800	.1	.1	1	$170	B34GT80	G5
34	1	1.5	1.5	1.5	.1	.1	1.5	$205	B34GT150	G5
35	1	.100	.100	.100	.05	.05	1	$110	B35GT10	G3
35	1	.300	.300	.300	.05	.05	1	$120	B35GT30	G3
35	1	.500	.500	.500	.05	.05	1	$145	B35GT50	G3
35	1	.600	.600	.600	.1	.05	1	$160	B35GT60	G3
35	1	.800	.800	.800	.1	.1	1.5	$170	B35GT80	G5
36	1	.100	.100	.100	.05	.05	1	$110	B36GT10	G3
36	1	.500	.500	.500	.05	.05	1	$145	B36GT50	G3
36	1	.800	.750	.700	.1	.05	1	$170	B36GT80	G5
36	.5	1.3	1.3	1.3	.1	.1	1.5	$190	B36GT130	G6
36	.5	1.3	1.3	1.3	.005	.005	.250	$240	A36MT130	M6
36	.5	2.3	2.0	1.8	.1	.1	1.5	$270	B36GT230	G9
36	.5	2.3	2.0	1.8	.005	.005	.250	$290	A36MT230	M9
36	.5	4.0	3.2	2.5	.005	.005	.250	$345	A36MT400	M13
36	.5	8.0	6.6	5.3	.005	.005	.250	$465	A36HT800	H11
36	.5	11.0	9.1	7.2	.005	.005	.250	$565	A36HT1100	H16
40	1	.200	.200	.200	.05	.05	1	$130	B40GT20	G3
40	1	.400	.400	.400	.05	.05	1	$155	B40GT40	G3
40	1	.500	.500	.500	.1	.05	1	$170	B40GT50	G5
40	1	1.0	1.0	1.0	.1	.1	1.5	$195	B40GT100	G6
45	1	.200	.200	.200	.05	.05	1	$130	B45GT20	G3
45	1	.400	.400	.400	.05	.05	1	$165	B45GT40	G3

Nominal Output Voltage	Adjust ±V	Output Current Amps. at 40°C	55°C	71°C	Regulation Load ± %	Line ± %	Ripple mV RMS	($) Price	Model	Case Size
48	1	.200	.200	.200	.05	.05	1	$130	B48GT20	G3
48	1	.400	.400	.400	.05	.05	1	$170	B48GT40	G3
48	1	.600	.600	.600	.1	.1	1	$205	B48GT60	G5
48	1	1.1	1.0	.600	.1	.1	1.5	$230	B48GT110	G6
48	1	1.2	1.0	.800	.005	.005	.250	$255	A48MT120	M6
48	1	1.8	1.6	1.2	.005	.005	.250	$295	A48MT180	M9
48	1	3.0	2.6	2.1	.005	.005	.250	$345	A48MT300	M13
48	1	6.0	5.0	4.0	.005	.005	.250	$465	A48HT600	H11
48	1	8.5	7.2	5.5	.005	.005	.250	$565	A48HT850	H16
50	1	.400	.400	.400	.05	.05	1	$185	B50GT40	G3
50	1	.500	.500	.500	.05	.05	1	$215	B50GT50	G5
50	1	1.0	.800	.700	.005	.005	.250	$270	A50MT100	M6
50	1	1.5	1.3	1.0	.005	.005	.250	$310	A50MT150	M9
50	1	2.7	2.3	1.8	.005	.005	.250	$360	A50MT270	M13
50	1	6.0	5.0	4.0	.005	.005	.250	$475	A50HT600	H11
50	1	8.0	6.6	5.2	.005	.005	.250	$565	A50HT800	H16
55	1	.500	.500	.500	.05	.05	1	$225	B55GT50	G5
60	1	.200	.200	.200	.05	.05	1	$155	B60GT20	G3
60	1	.300	.300	.300	.05	.05	1	$190	B60GT30	G3
60	1	.400	.400	.400	.05	.05	1	$225	B60GT40	G5
60	1	.850	.720	.600	.005	.005	.250	$275	A60MT85	M6
60	1	1.2	1.0	.800	.005	.005	.250	$310	A60MT120	M9
60	1	2.5	2.1	1.7	.005	.005	.250	$360	A60MT250	M13
60	1	5.0	4.1	3.3	.005	.005	.250	$480	A60HT500	H11
60	1	7.0	5.8	4.6	.005	.005	.250	$570	A60HT700	H16
65	1	.300	.300	.300	.05	.05	1	$190	B65GT30	G3
70	1	.100	.100	.100	.05	.05	1	$145	B70GT10	G3
70	1	.300	.300	.300	.05	.05	1	$190	B70GT30	G3
75	1	.050	.050	.050	.05	.05	1	$130	B75GT05	G3
75	1	.200	.200	.200	.05	.05	1	$185	B75GT20	G3
75	1	.600	.500	.400	.005	.005	.250	$275	A75MT60	M6
75	1	1.0	.830	.660	.005	.005	.250	$325	A75MT100	M9
75	1	2.0	1.8	1.5	.005	.005	.250	$360	A75MT200	M13
75	1	4.0	3.3	2.6	.01	.01	1	$480	A75HT400	H11
75	1	5.6	4.6	3.6	.01	.01	1	$575	A75HT560	H16
80	1	.100	.100	.100	.05	.05	1	$160	B80GT10	G3
80	1	.200	.200	.200	.05	.05	1	$190	B80GT20	G3
85	1	.200	.200	.200	.05	.05	1	$190	B85GT20	G3
90	1	.200	.200	.200	.05	.05	1	$190	B90GT20	G3
90	1	.500	.400	.300	.005	.005	.250	$275	A90MT50	M6
90	1	.800	.700	.600	.005	.005	.250	$325	A90MT80	M9
90	1	1.5	1.3	1.0	.005	.005	.250	$360	A90MT150	M13
90	1	3.3	2.7	2.1	.01	.01	1	$490	A90HT330	H11
90	1	4.4	3.6	2.9	.01	.01	1	$580	A90HT440	H16
95	1	.200	.200	.200	.05	.05	1	$195	B95GT20	G3
100	1	.100	.100	.100	.05	.05	1	$180	B100GT10	G3
100	1	.200	.200	.200	.05	.05	1	$195	B100GT20	G3
100	1	.460	.460	.340	.1	.1	1.5	$240	B100GT46	G6
100	1	.650	.650	.650	.1	.1	1.5	$270	B100G65	G6
100	1	.700	.600	.500	.005	.005	.250	$310	A100M70	M6
100	1	1.3	1.2	1.0	.005	.005	.250	$360	A100MT130	M13
100	1	3.0	2.5	2.0	.01	.01	1	$490	A100HT300	H11
100	1	4.0	3.3	2.6	.01	.01	1	$580	A100HT400	H16
110	1	.200	.200	.200	.05	.05	1	$200	B110GT20	G3
120	1	.100	.100	.100	.05	.05	1	$185	B120GT10	G3
120	1	.200	.200	.200	.05	.05	1	$200	B120GT20	G3
120	1	.400	.400	.300	.1	.1	1.5	$235	B120GT40	G6
120	1	.550	.550	.550	.1	.1	1.5	$280	B120G55	G6
120	1	.600	.500	.400	.005	.005	.250	$330	A120M60	M6
120	1	1.2	1.1	1.0	.005	.005	.250	$360	A120MT120	M13
120	1	2.5	2.0	1.6	.01	.01	1	$500	A120HT250	H11
120	1	3.5	2.9	2.3	.01	.01	1	$590	A120HT350	H16
125	1	.200	.200	.200	.05	.05	1	$230	B125GT20	G3
125	1	.400	.400	.300	.1	.1	1.5	$245	B125GT40	G6
125	1	.500	.400	.300	.005	.005	.250	$340	A125MT50	M6
125	1	.550	.550	.550	.1	.1	1.5	$290	B125G55	G6
125	1	1.2	1.1	1.0	.005	.005	.250	$370	A125MT120	M13
125	1	2.5	2.0	1.6	.01	.01	1	$510	A125HT250	H11
125	1	3.5	2.9	2.3	.01	.01	1	$595	A125HT350	H16
130	1	.200	.200	.200	.05	.05	1	$235	B130GT20	G3
135	1	.200	.200	.200	.05	.05	1	$235	B135GT20	G3
140	1	.200	.200	.200	.05	.05	1	$235	B140GT20	G3
150	1	.100	.100	.100	.05	.05	1	$190	B150GT10	G3
150	1	.200	.200	.200	.05	.05	1	$230	B150GT20	G3
150	1	.320	.320	.250	.1	.1	1.5	$250	B150GT32	G6
150	1	.420	.420	.420	.1	.1	1.5	$270	B150GT42	G9
150	1	1.0	.900	.800	.005	.005	.250	$390	A150MT100	M13
150	1	3.0	2.5	2.0	.01	.01	1	$605	A150HT300	H16
200	1	.100	.100	.100	.1	.05	1.5	$230	B200GT10	G3

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- Output can be inhibited with TTL level
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- Wide Adjust models with ranges down to 0 Volts
- Programmable models with 0-10V control voltages
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- 5 Year Warranty

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AC-DC or DC-DC

single output & wide adjust output

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STANDARD FEATURES

- Universal input
- Power Factor Correction
- Constant voltage and constant current modes
- Voltage and current monitor terminals
- Voltage and current programming capabilities
- Short circuit and overload protection
- Thermal protection
- Low Profile
- No minimum load required
- Adjustable down to 0 volts ('Wide Adjust' models)
- Can be paralleled for increased current (option P)
- N+1 Redundancy (option N)
- Internal EMI Filter and RFI Shielding
- Pluggable connectors for input and control wiring
- Remote Sensing
- 'Vout OK' signal monitor
- 'Soft start' operation

SPECIFICATIONS

Input Voltage: 90-265 VAC, 49-420 Hz, single phase, or 110-350 Vdc.
208 VAC 3-phase is also available (see Options).
AC input (maximum): 8A (WL7 case), 12A (WL9 case)
DC input (maximum): 5.75A (WL7 case), 8.8A (WL9 case)
DC input may be connected without regard to polarity.

Inrush current: Cold start, (thermistor limiter) 33A peak @115 VAC (typical); 65A peak @ 230 VAC (typical).

Startup Time: 800 mS (typical).

Input Undervoltage: An input of less than 90 VAC will not damage power supply.

Power Factor: 0.99 typical at 115 VAC, 60Hz and full load. Complies with EN61000-3-2.

Regulation (in constant voltage mode):
Line Regulation: ±0.05%
Load Regulation: ±0.05%

Regulation, Ripple (in constant current mode):
Line Regulation: ±0.2% or 30 mA.
Load Regulation: ±0.5% or 100 mA.
Current Ripple: 0.5% rms.

Ambient Operating Temperature: 0 to +71°C.

Temperature Coefficient (after 30 minute warm-up): Voltage mode; ±0.02%/°C (typical).
Current mode; ±0.1%/°C (typical).

Drift (voltage mode or current mode): ±0.1% (typical) over 8 hours, after 30 minute warmup.

Storage Temperature: –40 to +85°C.

Holdup Time: 20 mS minimum with full load.

Transient Response: 300 µS to return to ±1% of output setting. Maximum of ±3% output excursion following a load step change from 50% to 100%.

Efficiency: See table, (typical, at 115 VAC, with full load.)

Polarity: Output is floating and may be used in either polarity.

Remote Sensing: Compensates up to 0.5 Vdc drop per output line (or within the limits of the output voltage adjustment range). (Wide Adjust models compensate up to 0.5 Vdc drop per output line.

Output Adjustment: Voltage and current output adjustments are located on the front. Output adjustment may also be controlled by using remotely located potentiometers.

Output Programming (Wide Adjust models): The output voltage and current may be programmed from 0 to full rating by means of control voltage inputs of 0 to +10Vdc (0 to +5Vdc for models with option "C5"). Voltage mode accuracy: 0.5%. Current mode accuracy: 3% for models with greater than 10 amps output current and 4% for models with less than 10 amps output current. Accuracy percentages do not apply below 5% of output rating.

Voltage Monitor Terminal: Permits remote monitoring of output voltage, stepped down by a ratio of 10:1 (for 3.3v to 90v models) or 100:1 (for 100v to 135v models). Accuracy is 0.5% of maximum rated output voltage.

For models with 0-5v programming option "C5": Permits remote monitoring of output voltage, stepped down by a ratio of 10:1 (for 3.3v to 45v models) or 100:1 (for 48v to 135v models). Accuracy is 0.5% of maximum rated output voltage.

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Current Monitor Terminal: For models with greater than 10 amps output current: permits remote monitoring of output current, stepped down by a ratio of 100 mV/Amp (accuracy is 3% of maximum rated output current). For models with less than 10 amps output current: permits remote monitoring of output current, stepped down by a ratio of 1000 mV/Amp (accuracy is 3% of maximum rated output current).

For models with 0-5v programming option "C5": For models with greater than 45 amps output current: permits remote monitoring of output current, stepped down by a ratio of 10 mV/Amp (accuracy is 5% of maximum rated output current). For models with less than 45 amps output current: permits remote monitoring of output current, stepped down by a ratio 100 mV/Amp (accuracy is 3% of maximum rated output current).

Overload/Short Circuit Protection: A short or overload forces the power supply into constant current mode, with automatic recovery.

Overvoltage Protection: Latches power supply OFF, reset by momentarily removing AC input power. (Models with 'N' option reset automatically.)

Thermal Protection: Thermostat(s), self-resetting.

Internal Failure Protection: Provided by internal fuse.

Output Inhibit: Applying between +3 and +15 Vdc to the Inhibit terminal will disable the supply. 'Output Enable' is also available (see Options).

Vout OK: When the power supply's output voltage is between -10% and +15% of the nominal output voltage, 'Vout OK' will be between +3 and +5Vdc(high). When the output voltage is outside the -10%, +15% window, the 'Vout OK' voltage will go low (approx 0.5 Vdc). 'Vout OK' can source 1 mA or sink up to 5 mA. (Not available on Wide Adjust Output models.)

Output Indicator (DC on): Green LED.

Switching Frequency: 110 kHz (typical).

EMI: Designed to meet FCC Part 15 and EN55022, Class A.

Dielectric Withstand Voltage		Isolation
Input to output:	4242 Vdc	500 VAC
Input to case:	2121 Vdc	500 VAC
Output to case:	750 Vdc	300 VAC

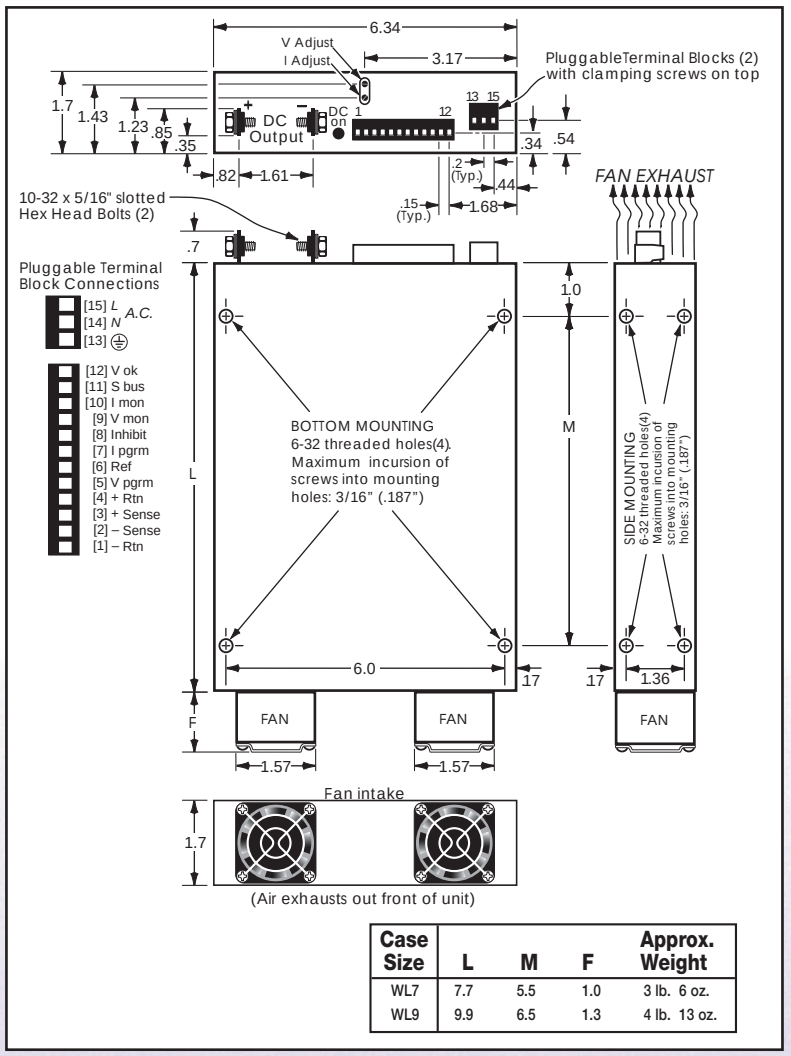
Cooling: Forced-air cooled; air enters rear of power supply and exits from front cover.

Mounting: Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket. To mount from the power supply side of the mounting surface use Mounting Kit NP6, or for DIN rail mounting use Mounting Kit WL35DIN or WLH35DIN. See accessory Mounting Kits on page 91.

OPTIONS

Output Enable: To enable the DC output, the Inhibit terminal must be tied to the -DC output. An open collector or contact closure can be used. To order, add suffix "E" to the model number. No increase in price.

N+1 Redundancy: Allows up to 4 like models to be wired in N+1 redundancy. An internal isolation OR-ing diode is included in each power supply. Current share accuracy is ±5% (typical). Power supply output current must be derated by 10%. (Available on SIngle Output models only.) This option includes the "P" (**Parallelable**) option listed below, so if you specify the "N" option do not also specify the "P" option. To order, add suffix "N" to the model number, and increase standard price by $50.00.



Case Size	L	M	F	Approx. Weight
WL7	7.7	5.5	1.0	3 lb. 6 oz.
WL9	9.9	6.5	1.3	4 lb. 13 oz.

Parallelable: Allows up to 4 like models to be directly wired in parallel for increased current capability. Current share accuracy is ±5% (typical). Power supply output current must be derated by 5%. (Available on SIngle Output models only.) This option is included in the "N" (**N+1 Redundancy**) option listed above, so if you specify the "N" option, do not also specify the "P" option. To order, add suffix "P" to the model number, and increase standard price by $25.00.

0-5v Programming (instead of the standard 0-10v Programming): Output voltage and current of standard models may be programmed from 0 to full rating by means of control voltage inputs of 0 to +10Vdc. For programming with 0 to +5Vdc control voltages, add suffix "C5" to the model number, and increase standard price by $40.00. Voltage mode accuracy: 1%. Current mode accuracy: 5%. Accuracy percentages do not apply below 5% of output rating. (Available on Wide Adjust Output models only.)

Thermostatically Controlled Fan: Fan runs at reduced speed until maximum speed is required. To order, add suffix "D2" to the model number, and increase standard price by $30.00.

Output Blocking Protection Diode: Used for battery charging or redundant applications. Derate output by 10%. To order, add suffix "E1" to the model number, and increase standard price by $25.00.

208 VAC 3-phase Input Voltage: 170-240 VAC, 60-400 Hz. To order, add suffix "L4" to the model number, and increase standard price by $115.00.

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Low Profile SWITCHING REGULATED (to 720 watts)

SINGLE OUTPUT

Nominal Output Voltage	Adjust Range ± V	Output Current Amps. at 40°C	Output Current Amps. at 71°C	Ripple mV (@ 25 MHz BW) RMS	Ripple mV (@ 25 MHz BW) P-P	Effic. (Typ.) %	($) Price	Model	Case Size
3.3	.25	40	30	15	50	61	590	W3.3LT4000	WL7
3.3	.25	70	49	15	50	61	775	W3.3LT7000	WL9
5	.25	40	30	15	50	64	590	W5LT4000	WL7
5	.25	70	49	15	50	64	775	W5LT7000	WL9
6	.25	40	30	15	50	65	590	W6LT4000	WL7
6	.25	68	47.6	15	50	65	775	W6LT6800	WL9
7	.5	40	29	15	50	65	590	W7LT4000	WL7
7	.5	66	46.2	15	50	65	775	W7LT6600	WL9
8	.5	39	28	30	100	67	590	W8LT3900	WL7
8	.5	64	44.8	30	100	67	775	W8LT6400	WL9
9	.5	38.8	27.2	30	100	67	590	W9LT3880	WL7
9	.5	62	43.4	30	100	67	775	W9LT6200	WL9
10	.5	37.5	26.3	30	100	68	590	W10LT3750	WL7
10	.5	60	42	30	100	68	775	W10LT6000	WL9
12	1	37.5	26.3	30	100	73	590	W12LT3750	WL7
12	1	60	42	30	100	73	775	W12LT6000	WL9
13	1	34.6	24.2	30	100	73	590	W13LT3460	WL7
13	1	55.4	38.8	30	100	73	775	W13LT5540	WL9
14	1	32.1	22.5	30	100	73	590	W14LT3210	WL7
14	1	51.4	35.9	30	100	73	775	W14LT5140	WL9
15	1	30	21	30	100	73	590	W15LT3000	WL7
15	1	48	33.6	30	100	73	775	W15LT4800	WL9
16	1	28.1	19.7	30	100	73	590	W16LT2810	WL7
16	1	45	31.5	30	100	73	775	W16LT4500	WL9
18	1	25	17.5	30	100	75	590	W18LT2500	WL7
18	1	40	28	30	100	75	775	W18LT4000	WL9
20	1	22.5	15.8	30	100	76	590	W20LT2250	WL7
20	1	36	25.2	30	100	76	775	W20LT3600	WL9
22	1	20.5	14.4	30	100	76	590	W22LT2050	WL7
22	1	32.7	22.9	30	100	76	775	W22LT3270	WL9
24	1	18.8	13.2	30	100	78	590	W24LT1880	WL7
24	1	30	21	30	100	78	775	W24LT3000	WL9
25	1	18	12.6	30	100	78	590	W25LT1800	WL7
25	1	28.8	20.2	30	100	78	775	W25LT2880	WL9
26	1	17.3	12.1	30	100	78	590	W26LT1730	WL7
26	1	27.7	19.4	30	100	78	775	W26LT2770	WL9
28	1	16	11.2	30	100	78	590	W28LT1600	WL7
28	1	25.7	18	30	100	78	775	W28LT2570	WL9
30	1	15	10.5	45	150	78	590	W30LT1500	WL7
30	1	24	16.8	45	150	78	775	W30LT2400	WL9

Nominal Output Voltage	Adjust Range ± V	Output Current Amps. at 40°C	Output Current Amps. at 71°C	Ripple mV (@ 25 MHz BW) RMS	Ripple mV (@ 25 MHz BW) P-P	Effic. (Typ.) %	($) Price	Model	Case Size
32	1	14	9.8	45	150	78	590	W32LT1400	WL7
32	1	22.5	15.8	45	150	78	775	W32LT2250	WL9
34	1	13.2	9.3	45	150	78	590	W34LT1320	WL7
34	1	21.2	14.8	45	150	78	775	W34LT2120	WL9
36	1	12.5	8.8	45	150	78	590	W36LT1250	WL7
36	1	20	14	45	150	78	775	W36LT2000	WL9
38	1	11.8	8.3	45	150	78	590	W38LT1180	WL7
38	1	18.9	13.2	45	150	78	775	W38LT1890	WL9
40	1	11.3	7.9	45	150	79	590	W40LT1130	WL7
40	1	18	12.6	45	150	79	775	W40LT1800	WL9
42	1	10.7	7.5	45	150	79	590	W42LT1070	WL7
42	1	17.1	12	45	150	79	775	W42LT1710	WL9
45	1	10	7	45	150	79	590	W45LT1000	WL7
45	1	16	11.2	45	150	79	775	W45LT1600	WL9
48	1	9.4	6.6	45	150	79	590	W48LT940	WL7
48	1	15	10.5	45	150	79	775	W48LT1500	WL9
50	1	9	6.3	44	150	79	590	W50LT900	WL7
50	1	14.4	10	44	150	79	775	W50LT1440	WL9
55	1	8.2	5.7	44	150	79	590	W55LT820	WL7
55	1	13.1	9.2	44	150	79	775	W55LT1310	WL9
60	1	7.5	5.3	44	150	79	590	W60LT750	WL7
60	1	12	8.4	44	150	79	775	W60LT1200	WL9
70	1	6.4	4.5	66	225	79	590	W70LT640	WL7
70	1	10.3	7.2	66	225	79	775	W70LT1030	WL9
75	1	6	4.2	66	225	79	590	W75LT600	WL7
75	1	9.6	6.7	66	225	79	775	W75LT960	WL9
80	1	5.6	3.9	66	225	79	590	W80LT560	WL7
80	1	9	6.3	66	225	79	775	W80LT900	WL9
90	1	5	3.5	66	225	79	590	W90LT500	WL7
90	1	8	5.6	66	225	79	775	W90LT800	WL9
100	1	4.5	3.2	88	300	79	590	W100LT450	WL7
100	1	7.2	5	88	300	79	775	W100LT720	WL9
110	1	4.1	2.9	88	300	79	590	W110LT410	WL7
110	1	6.5	4.5	88	300	79	775	W110LT650	WL9
120	1	3.8	2.7	88	300	79	590	W120LT380	WL7
120	1	6	4.2	88	300	79	775	W120LT600	WL9
125	1	3.6	2.5	88	300	79	590	W125LT360	WL7
125	1	5.7	4	88	300	79	775	W125LT570	WL9
135	1	3.3	2.3	103	350	79	590	W135LT330	WL7
135	1	5.3	3.7	103	350	79	800	W135LT530	WL9

WIDE ADJUST OUTPUT

Output Voltage Range	Output Current Amps. at 40°C	Output Current Amps. at 71°C	Ripple mV (@ 25 MHz BW) RMS	Ripple mV (@ 25 MHz BW) P-P	Effic. (Typ.) %*	($) Price	Model	Case Size
0-5	40	31	15	50	64	615	Y05LX4000	WL7
0-5	70	49	15	50	64	800	Y05LX7000	WL9
0-8	40	28	15	100	67	615	Y08LX4000	WL7
0-8	64	44	15	100	67	800	Y08LX6400	WL9
0-10	37	26	30	100	68	615	Y010LX3700	WL7
0-10	60	42	30	100	68	800	Y010LX6000	WL9
0-14	32	22	30	100	70	615	Y014LX3200	WL7
0-14	51	35	30	100	70	800	Y014LX5100	WL9
0-16	28	20	30	100	70	615	Y016LX2800	WL7
0-16	45	31	30	100	70	800	Y016LX4500	WL9
0-22	20	14	30	100	73	615	Y022LX2000	WL7
0-22	32	22	30	100	73	800	Y022LX3200	WL9
0-30	15	11	45	150	75	615	Y030LX1500	WL7
0-30	24	16	45	150	75	800	Y030LX2400	WL9
0-40	11	8	45	150	76	615	Y040LX1100	WL7
0-40	18	12	45	150	76	800	Y040LX1800	WL9
0-50	9	6	45	150	76	615	Y050LX900	WL7
0-50	15	10	45	150	76	800	Y050LX1500	WL9

* At maximum output voltage

Output Voltage Range	Output Current Amps. at 40°C	Output Current Amps. at 71°C	Ripple mV (@ 25 MHz BW) RMS	Ripple mV (@ 25 MHz BW) P-P	Effic. (Typ.) %*	($) Price	Model	Case Size
0-60	7.5	5.3	44	150	79	615	Y060LX750	WL7
0-60	12	8.4	44	150	79	800	Y060LX1200	WL9
0-70	6.4	4.5	66	225	79	615	Y070LX640	WL7
0-70	10.3	7.2	66	225	79	800	Y070LX1030	WL9
0-75	6	4.2	66	225	79	615	Y075LX600	WL7
0-75	9.6	6.7	66	225	79	800	Y075LX960	WL9
0-80	5.6	3.9	66	225	79	615	Y080LX560	WL7
0-80	9	6.3	66	225	79	800	Y080LX900	WL9
0-90	5	3.5	66	225	79	615	Y090LX500	WL7
0-90	8	5.6	66	225	79	800	Y090LX800	WL9
0-100	4.5	3.2	88	300	79	615	Y0100LX450	WL7
0-100	7.2	5	88	300	79	800	Y0100LX720	WL9
0-110	4.1	2.9	88	300	79	615	Y0110LX410	WL7
0-110	6.5	4.5	88	300	79	800	Y0110LX650	WL9
0-120	3.8	2.7	88	300	79	615	Y0120LX380	WL7
0-120	6	4.2	88	300	79	800	Y0120LX600	WL9
0-125	3.6	2.5	88	300	79	615	Y0125LX360	WL7
0-125	5.7	4	88	300	79	800	Y0125LX570	WL9
0-135	3.3	2.3	103	350	79	615	Y0135LX330	WL7
0-135	5.3	3.7	103	350	79	800	Y0135LX530	WL9

* At maximum output voltage

Gold Box

SWITCHING REGULATED

AC-DC

single output & wide adjust output



- Shipped Within 9 Days
- U.L. Recognized (3.3v to 48v models)
- Five Year Warranty

These ruggedly-built power supplies have tightly regulated outputs and low output ripple. Features include status indicator lights, overvoltage protection, EMI filtering, 'soft start' operation and provision for external output inhibiting (TTL-compatible).

SPECIFICATIONS

Input Voltage: 90-132 VAC, 49-61 Hz, single phase. For models W12GT95, W15GT78, W24GT50, W28GT42 and W48GT25, the use of a 30A line is recommended and when operating on 50 Hz input, derate output by 5%.

Startup Time: 400 mS maximum (250 mS typical).

Input Undervoltage: An input of less than 90 VAC (180 VAC with "–230" option) will not damage power supply.

Load Regulation:
3.3v to 48v Models: ±0.05%
50v to 125v Models: ±0.1%

Line Regulation:
3.3v to 48v Models: ±0.05%
50v to 125v Models: ±0.1%

Remote Voltage Programming: The output voltage may be controlled by means of an external potentiometer (2500 ohms for single output models; 50,000 ohms for wide adjust output models).

Polarity: Output is floating and may be used in either polarity.

Drift: ±0.1% typical over 8 hours, after 30 minute warmup.

Temperature Coefficient: ±0.02%/°C (Typical).

Holdup Time: 33 mS minimum (At nominal input voltage, with full load).

Transient Response: 300 µS to return to ±1% of output setting. Maximum of ±3% output excursion following a load step change from 50% to 100%.

Remote Sensing: Compensates up to 0.5 volt drop per output line, within the limits of the output voltage adjustment range.

Overload/Short Circuit Protection: Foldback current limiting with automatic recovery.

Overvoltage Protection: Latches power supply OFF, reset by momentarily removing AC input power. Red indicator lights to indicate latchup.

Output Inhibit: Applying between +2 and +30 Vdc to the inhibit terminal will disable the supply (TTL compatible).

Thermal Protection: Thermostat, self-resetting.

Efficiency: See table. (Typical, at nominal input voltage, with full load.)

Ambient Operating Temperature: 0 to +71°C.

Storage Temperature: –40 to +85°C.

Terminal Strip Cover: Clips on.

Cooling: Forced-air cooled (ball bearing fan); air enters back of power supply and exits from front.

Switching Frequency: 55 kHz (Typical).

Isolation: **Input to output:** 1400 Vdc
Input to case: 1400 Vdc
Output to case: 400 Vdc

Mounting: Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket, or they may be used on a test bench or tabletop. To mount from the power supply side of the mounting surface or for DIN rail mounting, see accessory Mounting Kits on page 91.

OPTIONS

230 Volt Input: For applications where operation on an input of 180-264 VAC, 49-61 Hz, is desired. To order, add suffix "–230" to the model number and $40.00 to the standard price. The "–230" option requires two additional days.

WIDE ADJUST OUTPUT MODELS

Output Voltage Range	Output Current Amps. at 40°C	Output Current Amps. at 71°C	Ripple mV (@ 25 MHz BW) RMS	Ripple mV (@ 25 MHz BW) P-P	Effic. (Typ.) %**	($) Price	Model	Case Size
5-15	23	16	15	100	76	650	W515MT23	WM6
5-15	36	25	15	100	76	850	W515MT36	WM9
5-15	54	38	15	100	76	1050	W515GT54	WG7
5-30	13	9	25	150	81	650	W530MT13	WM6
5-30	19	13	25	150	81	850	W530MT19	WM9
5-30	30	20	25	150	81	1050	W530GT30	WG7
15-50	8	5	25	150	82	650	W1550MT8	WM6
15-50	12	8.5	25	150	82	850	W1550MT12	WM9
15-50	18	12	25	150	82	1050	W1550GT18	WG7

** At maximum output voltage

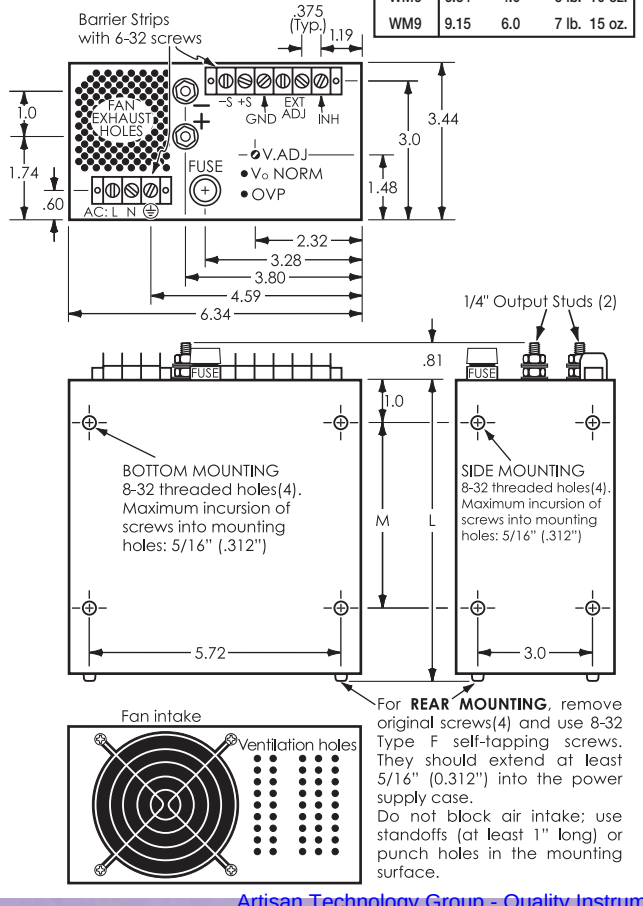
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SINGLE OUTPUT MODELS

Nominal Output Voltage	Adjust Range ± V	Output Current Amps. at 40°C	Output Current Amps. at 71°C	Ripple mV (@ 25 MHz BW) RMS	Ripple mV (@ 25 MHz BW) P-P	Effic. (Typ.) %	($) Price	Model	Case Size
3.3	.25	65	45	10	50	65	595	W3.3MT65	WM6
3.3	.25	100	70	10	50	65	795	W3.3MT100	WM9
3.3	.25	150	105	10	50	65	995	W3.3GT150	WG7
5	.25	65	45	10	50	70	595	W5MT65	WM6
5	.25	100	70	10	50	70	795	W5MT100	WM9
5	.25	150	105	10	50	70	995	W5GT150	WG7
6	.25	56	39	10	50	71	595	W6MT56	WM6
6	.25	86	60	10	50	71	795	W6MT86	WM9
8	.25	41	28	15	100	73	595	W8MT41	WM6
8	.25	63	44	15	100	73	795	W8MT63	WM9
9	.25	37	26	15	100	73	595	W9MT37	WM6
9	.25	57	40	15	100	73	795	W9MT57	WM9
10	.5	34	24	15	100	74	595	W10MT34	WM6
10	.5	52	36	15	100	74	795	W10MT52	WM9
12	.5	29	20	15	100	76	595	W12MT29	WM6
12	.5	45	32	15	100	76	795	W12MT45	WM9
12	.5	68	47	15	100	76	995	W12GT68	WG7
12	.5	95	66	15	100	76	1095	W12GT95	WG7
15	.5	23	16	15	100	76	595	W15MT23	WM6
15	.5	36	25	15	100	76	795	W15MT36	WM9
15	.5	54	38	15	100	76	995	W15GT54	WG7
15	.5	78	54	15	100	76	1095	W15GT78	WG7
18	.5	20	14	15	100	78	595	W18MT20	WM6
18	.5	31	22	15	100	78	795	W18MT31	WM9
20	1	19	13	15	100	79	595	W20MT19	WM6
20	1	28	19	15	100	79	795	W20MT28	WM9
24	1	16	11	15	100	81	595	W24MT16	WM6
24	1	25	18	15	100	81	795	W24MT25	WM9
24	1	38	26	15	100	81	995	W24GT38	WG7
24	1	50	35	15	100	81	1095	W24GT50	WG7
28	1	14	10	15	100	81	595	W28MT14	WM6
28	1	21	15	15	100	81	795	W28MT21	WM9
28	1	32	22	15	100	81	995	W28GT32	WG7
28	1	42	29	15	100	81	1095	W28GT42	WG7
30	1	13	9	25	150	81	595	W30MT13	WM6
30	1	19	13	25	150	81	795	W30MT19	WM9
36	1	10	7	25	150	81	595	W36MT10	WM6
36	1	15	11	25	150	81	795	W36MT15	WM9
40	1	9	6	25	150	82	595	W40MT9	WM6
40	1	14	10	25	150	82	795	W40MT14	WM9
48	1	8	5	25	150	82	595	W48MT8	WM6
48	1	12	8.5	25	150	82	795	W48MT12	WM9
48	1	19	13	25	150	82	995	W48GT19	WG7
48	1	25	17	25	150	82	1095	W48GT25	WG7
50*	1	7.7	5.4	50	150	80	595	W50MT7.7	WM6
50*	1	12	8.4	50	150	80	795	W50MT12	WM9
50*	1	18.2	12.8	50	150	80	995	W50GT18.2	WG7
55*	1	7	4.9	50	150	80	595	W55MT7	WM6
55*	1	10.9	7.6	50	150	80	795	W55MT10.9	WM9
55*	1	16.6	11.6	50	150	80	995	W55GT16.6	WG7
60*	1	6.4	4.5	50	150	80	595	W60MT6.4	WM6
60*	1	10	7.0	50	150	80	795	W60MT10	WM9
60*	1	15.2	10.6	50	150	80	995	W60GT15.2	WG7
70*	1	5.5	3.8	67	250	80	595	W70MT5.5	WM6
70*	1	8.6	6	67	250	80	795	W70MT8.6	WM9
70*	1	13	9.1	67	250	80	995	W70GT13	WG7
75*	1	5.1	3.6	67	250	80	595	W75MT5.1	WM6
75*	1	8	5.6	67	250	80	795	W75MT8	WM9
75*	1	12.2	8.5	67	250	80	995	W75GT12.2	WG7
80*	1	4.8	3.4	67	250	80	595	W80MT4.8	WM6
80*	1	7.5	5.3	67	250	80	795	W80MT7.5	WM9
80*	1	11.4	8	67	250	80	995	W80GT11.4	WG7
90*	1	4.3	3	100	250	80	595	W90MT4.3	WM6
90*	1	6.7	4.7	100	250	80	795	W90MT6.7	WM9
90*	1	10.1	7.1	100	250	80	995	W90GT10.1	WG7
100*	2	3.8	2.7	150	350	80	595	W100MT3.8	WM6
100*	2	6	4.2	150	350	80	795	W100MT6	WM9
100*	2	9.1	6.4	150	350	80	995	W100GT9.1	WG7
110*	2	3.5	2.4	150	350	80	595	W110MT3.5	WM6
110*	2	5.5	3.8	150	350	80	795	W110MT5.5	WM9
110*	2	8.3	5.8	150	350	80	995	W110GT8.3	WG7
120*	2	3.2	2.2	150	350	80	595	W120MT3.2	WM6
120*	2	5	3.5	150	350	80	795	W120MT5	WM9
120*	2	7.6	5.3	150	350	80	995	W120GT7.6	WG7
125*	2	3.1	2.2	150	350	80	595	W125MT3.1	WM6
125*	2	4.8	3.4	150	350	80	795	W125MT4.8	WM9
125*	2	7.3	5.1	150	350	80	995	W125GT7.3	WG7

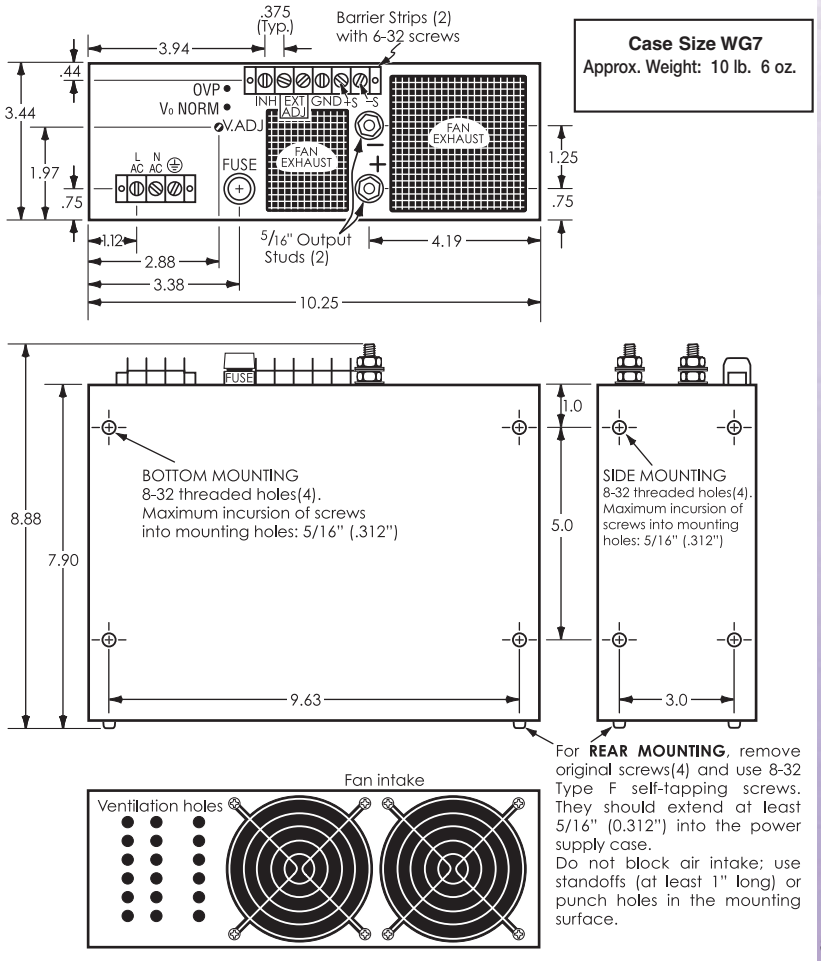
*Not U.L. recognized when this catalog was published.

Case Size	L	M	Approx. Weight
WM6	6.34	4.0	5 lb. 10 oz.
WM9	9.15	6.0	7 lb. 15 oz.



For **REAR MOUNTING**, remove original screws(4) and use 8-32 Type F self-tapping screws. They should extend at least 5/16" (0.312") into the power supply case.
Do not block air intake; use standoffs (at least 1" long) or punch holes in the mounting surface.

Case Size WG7
Approx. Weight: 10 lb. 6 oz.



For **REAR MOUNTING**, remove original screws(4) and use 8-32 Type F self-tapping screws. They should extend at least 5/16" (0.312") into the power supply case.
Do not block air intake; use standoffs (at least 1" long) or punch holes in the mounting surface.

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Gold Box
UNREGULATED
AC-DC
single output & wide adjust output



Models in case size YA have output voltage adjustment on rear panel.

- Shipped Within 3 Days
- U.L. Recognized
- Five Year Warranty

Low-cost DC power suitable for driving loads such as lamps, relays, and small motors is provided by these unregulated power supplies. All components are generously derated, insuring a long and trouble-free life; built-in fusing prevents damage due to prolonged overloading or short circuits. Mechanically similar to the regulated supplies shown on pages 46 and 47, they are housed in extruded aluminum cases which can be mounted in any position. Many models are U.L. Recognized.

STANDARD FEATURES

- Capacitive filtering
- Fused input
- May be used in series or parallel
- No derating or heat sinking required
- Completely serviceable

SPECIFICATIONS

Input Voltage: 0-125 VAC, 50-400 Hz, single phase.

Output Voltage Adjustment: Adjustable voltage models are provided with a built-in continuously adjustable autotransformer.

Load Regulation: The nominal output voltages of single output models, and the maximum rated output voltages for models with wide adjust outputs, are based on 115 VAC input with approximately one-half load. At no load, they will increase by approximately 10%. At full load, they will be reduced by approximately 10%.

Line Regulation: Output voltage change due to line change directly proportional to input change.

Polarity: Output is floating; either positive or negative terminal may be grounded or floated up to 300 volts above ground.

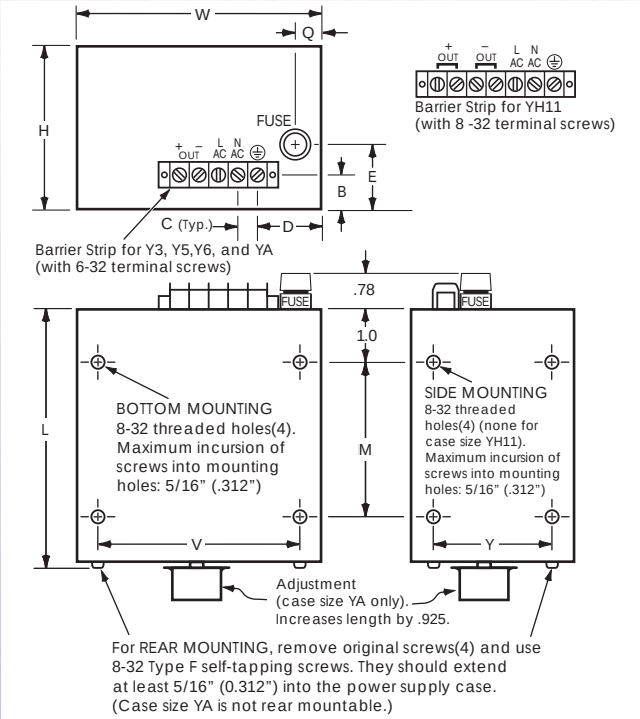
Ambient Operating Temperature: –10 to +65°C.
No derating required.

Storage Temperature: –55 to +85°C.

OPTIONS

Terminal Strip Cover: Clips on. To order, add suffix “M” to model number and $5.00 to price.

230 Volt Input: Provision for inputs of 0-250 VAC, 50-400 Hz, replacing the standard 0-125 VAC input voltage range, is available on single output models. To order, add suffix "-230" to model number and $25.00 to price (for models in case size YH11 add $40.00).
The "-230" option requires two additional days.



Case Size	L	W	H	M	V	Y	Q	E	B	D	C	Approx. Weight
Y3	3.71	5.12	3.44	1.62	4.5	3.0	.56	1.37	.75	1.44	.375	2 lb. 8 oz.
Y5	5.09	5.12	3.44	3.0	4.5	3.0	.56	1.37	.75	1.44	.375	4 lb. 8 oz.
Y6	6.59	5.12	3.44	4.0	4.5	3.0	.56	1.37	.75	1.44	.375	7 lb. 8 oz.
YH11	11.25	7.37	5.12	8.0	6.75	4.56	1.10	2.64	1.25	2.25	.562	18 to 23 lb.
YA	6.59	5.12	3.44	4.0	4.5	3.0	.56	1.37	.75	1.44	.375	4 to 5 lb.

Mounting: Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket, or they may be used on a test bench or tabletop. To mount from the power supply side of the mounting surface or for DIN rail mounting, see accessory Mounting Kits on page 91.

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SINGLE OUTPUT

Nominal Output Voltage	Output Current Amps.	Output Voltage N/L-F/L	Ripple Volts RMS	($) Price	Model	Case Size
4	.200	4.4 to 3.6	.2	$90	U4Y20	Y3
5	10.0 (@ 5.0)	6.7 to 3.6 (5.0)	1.8 (1.3)	$135	U5Y1000	Y6
6	2.0	7.7 to 4.8	2.0	$90	U6Y200	Y3
6	5.0	7.5 to 5.0	1.8	$135	U6Y500	Y5
7	8.0	8.0 to 5.4	1.5	$135	U7Y800	Y6
9	10.0 (@ 5.0)	11.5 to 7.5 (9.0)	2.3 (1.3)	$135	U9Y1000	Y6
10	10.0 (@ 5.0)	12.4 to 8.0 (9.8)	2.3 (1.3)	$135	U10Y1000	Y6
12	1.5	14.9 to 10.9	2.5	$90	U12Y150	Y3
12	5.0	14.8 to 10.5	1.8	$125	U12Y500	Y5
12	10.0 (@ 5.0)	14.1 to 9.8 (11.5)	2.3 (1.3)	$140	U12Y1000	Y6
14	1.0	15.4 to 12.6	.7	$90	U14Y100	Y3
14	10.0 (@ 5.0)	16.4 to 12.1 (14.0)	2.3 (1.3)	$140	U14Y1000	Y6
15	10.0 (@ 5.0)	17.2 to 12.8 (14.5)	2.3 (1.3)	$140	U15Y1000	Y6
16	1.0	17.6 to 14.4	.7	$90	U16Y100	Y3
16	10.0 (@ 5.0)	18.8 to 14.2 (16.0)	2.3 (1.3)	$140	U16Y1000	Y6
18	1.0	19.8 to 16.2	.7	$90	U18Y100	Y3
18	10.0 (@ 5.0)	21.0 to 15.8 (18.0)	2.4 (1.4)	$140	U18Y1000	Y6
20	4.0	22.0 to 17.5	2.0	$125	U20Y400	Y5
20	10.0 (@ 5.0)	23.7 to 18.3 (20.4)	2.4 (1.4)	$140	U20Y1000	Y6
24	1.0	26.4 to 21.6	1.7	$90	U24Y100	Y3
24	3.5	26.0 to 21.0	2.0	$125	U24Y350	Y5
24	5.0	26.5 to 21.0	2.5	$140	U24Y500	Y6
24	10.0	26.8 to 21.4	2.4	$170	U24Y1000	Y6
24	17.0	26.4 to 21.6	1.5	$295	U24Y1700	YH11
24	23.0	27.0 to 21.0	1.5	$325	U24Y2300	YH11
25	5.0	28.1 to 22.3	2.5	$140	U25Y500	Y6
27	5.0	30.0 to 24.0	2.6	$140	U27Y500	Y6
28	1.0	30.8 to 25.2	1.7	$90	U28Y100	Y3
28	3.0	30.8 to 26.0	2.0	$125	U28Y300	Y5
28	5.0	31.2 to 24.8	2.6	$140	U28Y500	Y6
28	8.0	30.2 to 25.0	2.4	$170	U28Y800	Y6
28	15.0	30.8 to 25.2	1.5	$295	U28Y1500	YH11
28	20.0	30.4 to 24.5	1.5	$325	U28Y2000	YH11
30	2.0	33.0 to 27.0	1.5	$120	U30Y200	Y5
32	.400	35.2 to 28.8	.6	$90	U32Y40	Y3
32	5.0	35.5 to 28.0	3.3	$145	U32Y500	Y6
35	5.0	38.0 to 30.0	3.3	$145	U35Y500	Y6
37	5.0	40.5 to 32.2	3.3	$145	U37Y500	Y6
38	5.0	43.0 to 34.0	3.3	$145	U38Y500	Y6
40	1.0	44.0 to 36.0	1.6	$100	40UY100	Y3
40	2.0	44.0 to 36.0	1.5	$125	U40Y200	Y5
40	5.0	45.0 to 37.0	3.3	$145	U40Y500	Y6
41	.400	45.1 to 36.9	.6	$90	U41Y40	Y3
42	5.0	48.0 to 36.0	6.5	$145	U42Y500	Y6
44	2.0	48.4 to 39.6	1.5	$125	U44Y200	Y5
45	1.0	49.5 to 40.5	1.6	$110	45UY100	Y3
45	5.0	51.0 to 38.5	6.5	$145	U45Y500	Y6
48	.400	52.8 to 43.2	.6	$95	U48Y40	Y3
50	1.0	55 to 45	1.6	$110	50UY100	Y3
52	.400	57.2 to 46.8	.6	$100	U52Y40	Y3
55	.250	60.5 to 49.5	.4	$95	U55Y25	Y3
60	1.0	65.3 to 53.0	2.8	$120	U60Y100	Y5
62	.400	69.0 to 58.0	1.5	$100	U62Y40	Y3
80	.300	88.0 to 72.0	1.0	$100	U80Y30	Y3
90	.400	99.0 to 81.0	2.2	$100	U90Y40	Y3
95	.150	105 to 85	1.1	$100	U95Y15	Y3
100	.200	110 to 93	1.0	$100	U100Y20	Y3
110	.200	121 to 100	1.0	$100	U110Y20	Y3
120	.200	132 to 110	1.0	$100	U120Y20	Y3
140	.200	154 to 126	1.7	$110	U140Y20	Y3
150	.200	165 to 135	1.7	$110	U150Y20	Y3
165	.200	176 to 144	1.7	$110	U165Y20	Y3
170	.200	187 to 153	2.0	$110	U170Y20	Y3
180	.200	190 to 162	2.0	$110	U180Y20	Y3
200	.200	220 to 180	2.0	$115	U200Y20	Y3
250	.200	275 to 225	4.0	$115	250UY20	Y3
275	.100	303 to 247	3.0	$110	U275Y10	Y3
275	.200	303 to 247	4.0	$120	U275Y20	Y5
300	.200	330 to 270	5.0	$120	U300Y20	Y5
325	.200	360 to 295	6.0	$120	U325Y20	Y5
340	.100	374 to 306	3.0	$110	U340Y10	Y3
360	.100	396 to 324	3.0	$110	U360Y10	Y3
370	.100	407 to 333	3.0	$110	U370Y10	Y3
400	.200	440 to 360	6.0	$125	U400Y20	Y5
420	.100	462 to 378	6.7	$110	U420Y10	Y3
475	.020	523 to 426	3.1	$110	U475Y02	Y3
500	.200	550 to 450	9.1	$135	U500Y20	Y5
550*	.100	605 to 495	4.8	$135	U550Y10	Y5
580*	.020	638 to 522	3.1	$110	U580Y02	Y3
600*	.100	660 to 540	10.0	$140	U600Y10	Y5
750*	.020	825 to 675	3.1	$110	U750Y02	Y3
800*	.100	880 to 720	13.0	$140	U800Y10	Y5
900*	.020	990 to 810	5.0	$115	U900Y02	Y3
900*	.100	990 to 810	13.0	$140	U900Y10	Y5
1000*	.100	1100 to 900	13.0	$140	U1000Y10	Y5

*Not U.L. recognized when this catalog was published.

WIDE ADJUST OUTPUT

Output Voltage Range	Output Current Amps.	Ripple Volts RMS	($) Price	Model	Case Size
0-8*	2.0	2	$240	U8YA200	YA
0-15*	1.5	2.5	$240	U15YA150	YA
0-54*	1.0	1.6	$240	U54YA100	YA
0-95*	.300	2.2	$240	U95YA30	YA
0-125*	.200	1.5	$240	U125YA20	YA
0-220*	.200	2	$240	U220YA20	YA
0-260*	.200	4	$240	U260YA20	YA
0-370*	.100	3	$240	U370YA10	YA
0-450*	.100	6.7	$240	U450YA10	YA
0-800*	.020	3.1	$240	U800YA02	YA
0-950*	.020	5	$240	U950YA02	YA

*Not U.L. recognized when this catalog was published.

Gold Box & Narrow Profile

WIDE ADJUST OUTPUT

LINEAR REGULATED
AC-DC
(fixed & adjustable current limiting)



Narrow Profile

Gold Box

- Shipped Within 3 Days
- All models U.L. Recognized
- CE (Gold Box models)
- Five Year Warranty

These power supplies have the broad adjustment capability required for analog instrumentation and circuitry, electronic system development, basic research, and similar applications.

For applications requiring a constant current or adjustable current limiting, a power supply with a true constant-current characteristic, such as those with model numbers beginning with the letter P, should be used.

SPECIFICATIONS

Input Voltage: 105-125 VAC, 50-400 Hz, single phase.

Regulation, Ripple (in constant voltage mode):
Line Regulation: ±0.005% or 2 mV, whichever is greater.
Load Regulation: ±0.005% or 2 mV, whichever is greater.
Ripple: 0.25 mV rms.

Regulation, Ripple (in constant current mode):
Line Regulation: ±0.1% or 2 mA.
Load Regulation: ±0.2% or 5 mA.
Ripple: 0.1% rms.

Remote Voltage Sensing: Provision for sensing the output voltage across the load, to compensate voltage drops in output wiring, is a standard feature.

Remote Voltage Programming: The output voltage of all models may be controlled by means of external resistance connected in series with the –S lead.

Voltage Programming Coefficient: See table.
Calibration tolerance, ±2%.

Current Limiting: Models with fixed current limiting have a rolloff characteristic with automatic recovery. All others have current limiting with a constant-voltage/constant-current crossover characteristic.

Polarity: Output is floating; either positive or negative terminal may be grounded or floated up to 300 volts above ground.

Temperature Coefficient (in constant voltage mode): 0.015%/°C (Typical).

Ambient Operating Temperature: –20 to +71°C.

Storage Temperature: –55 to +85°C.

Mounting: Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket. To mount from the power supply side of the mounting surface or for DIN rail mounting, see accessory Mounting Kits on page 91.

OPTIONS

Remote Current Limiting Adjustment: All models having numbers beginning with the letter P have a built-in (front panel) current limit control. Provision for control of the current limit setting by adjustment of an external resistance is available as an option. To order, add the prefix letter "E" to the model number, and add $10.00 to the standard price.

The current limit setting is inversely related to resistance. Use a 200 ohm, ½ W potentiometer.

Overvoltage Protection: An internally mounted overvoltage protection circuit, set approximately 20% above the maximum output voltage rating of the supply, is available on all models. To order, add prefix "V" to the model number, and increase standard price as follows:

Maximum output of 6-60V	**100-150V**
All case sizes except H16 . . .$25.00	$35.00
Case size H16 . . . . . .75.00	85.00

Terminal Strip Cover: Clips on. To order, add suffix "M" to model number and $5.00 to price.

230 Volt Input: All models can be alternately furnished for operation on inputs of 210-250 VAC, 50-400 Hz. To order, add suffix "–230" to model number and $25.00 to price. (For models in case sizes H11 and H16, add $40.00.) The "–230" option requires two additional days.

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GOLD BOX MODELS

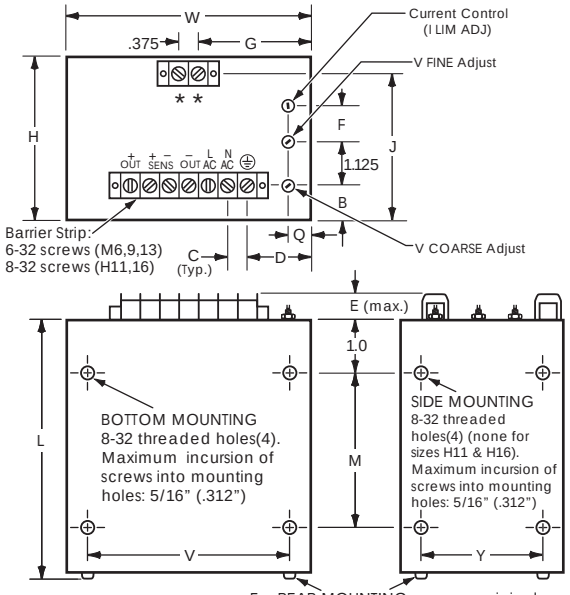
Output Voltage Range	Output Current Amps. at 40°C	55°C	71°C	Voltage Prgmg. Coeff. (Ω/V)	Case Size	Voltage Programmable Fixed Current Limiting Model	Price ($)	Voltage Programmable Adjust. Current Limiting Model	Price ($)
0-6	1.2	1.2	1.2	820	M6	A06MX120	$195	P06MX120	$225
0-6	2.0	2.0	2.0	820	M6	A06MX200	$225	P06MX200	$245
0-6	3.0	2.5	2.0	820	M6	A06MX300	$255	P06MX300	$280
0-6	5.0	4.0	3.0	820	M9	A06MX500	$305	P06MX500	$335
0-6	8.0	7.0	6.0	820	M13	A06MX800	$355	P06MX800	$375
0-6	12.0	10.0	7.0	820	H11	A06HX1200	$440	P06HX1200	$460
0-6	16.0	13.0	10.0	820	H16	A06HX1600	$515	P06HX1600	$535
0-15	1.0	1.0	1.0	330	M6	A015MX100	$185	P015MX100	$205
0-15	2.0	1.6	1.2	330	M6	A015MX200	$245	P015MX200	$270
0-15	3.0	2.4	1.8	330	M9	A015MX300	$305	P015MX300	$335
0-15	5.0	4.0	2.5	330	M13	A015MX500	$355	P015MX500	$375
0-15	8.0	6.0	4.0	330	H11	A015HX800	$455	P015HX800	$475
0-15	10.0	8.0	6.0	330	H16	A015HX1000	$515	P015HX1000	$535
0-30	.50	.50	.50	160	M6	A030MX50	$205	P030MX50	$235
0-30	1.0	1.0	1.0	160	M6	A030MX100	$245	P030MX100	$270
0-30	1.6	1.4	1.2	160	M9	A030MX160	$290	P030MX160	$310
0-30	2.5	2.0	1.5	160	M13	A030MX250	$350	P030MX250	$370
0-30	4.0	3.0	2.0	160	H11	A030HX400	$465	P030HX400	$485
0-30	5.0	4.0	3.0	160	H16	A030HX500	$530	P030HX500	$550
0-50	.35	.34	.33	1000	M6	A050MX35	$235	P050MX35	$255
0-50	.60	.50	.40	1000	M6	A050MX60	$290	P050MX60	$310
0-50	.85	.75	.65	1000	M9	A050MX85	$340	P050MX85	$360
0-50	1.2	.96	.72	1000	M13	A050MX120	$395	P050MX120	$420
0-50	2.4	1.9	1.4	1000	H11	A050HX240	$510	P050HX240	$535
0-50	3.0	2.4	1.8	1000	H16	A050HX300	$590	P050HX300	$620
0-100	.10	.09	.08	500	M6	A0100MX10	$290	P0100MX10	$310
0-100	.25	.20	.15	500	M6	A0100MX25	$340	P0100MX25	$360
0-100	.45	.36	.27	500	M9	A0100MX45	$385	P0100MX45	$410
0-100	.60	.48	.36	500	M13	A0100MX60	$440	P0100MX60	$465
0-100	1.2	.96	.72	500	H11	A0100HX120	$555	P0100HX120	$580
0-100	1.5	1.2	.90	500	H16	A0100HX150	$635	P0100HX150	$660

NARROW PROFILE MODELS
(for limited space applications)

Output Voltage Range	Output Current Amps. (to +71°C)	Voltage Prgmg. Coeff. (Ω/V)	Case Size	Model	($) Price
0-7*	1.0	700	N8T	A07XN100	$185
0-7*	2.1	700	N8H	A07NX210	$230
0-18*	.400	270	N8T	A018XN40	$180
0-18*	1.0	270	N8H	A018NX100	$215
0-32*	.250	150	N8T	A032XN25	$160
0-32*	.600	150	N8H	A032NX60	$215
0-60*	.125	820	N8T	A060NX12	$190
0-60*	.250	820	N8H	A060NX25	$240
0-150*	.050	330	N8T	A0150NX05	$230
0-150*	.100	330	N8H	A0150NX10	$275

* Not CE certified.

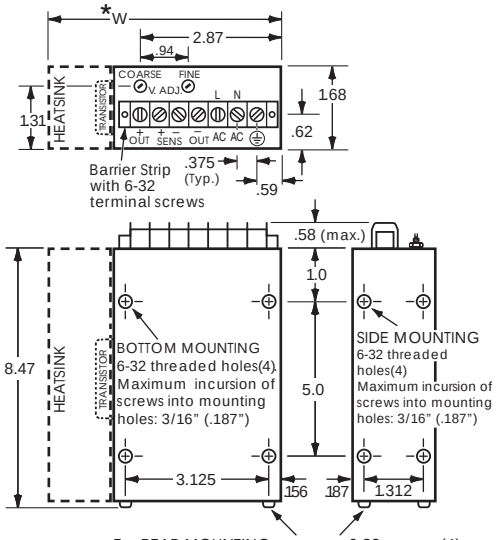
Gold Box



* * Connections for Remote Current Control

Case Size	L	W	H	M	V	Y	E	Q	B	C	D	F	G	J	Approx. Weight
M6	6.59	5.12	3.44	4.0	4.5	3.0	.58	.5	.75	.375	1.44	.75	2.37	3.09	5 lb. 5 oz.
M9	9.25	5.12	3.44	6.0	4.5	3.0	.58	.5	.75	.375	1.44	.75	2.37	3.09	6 lb. 3 oz.
M13	13.25	5.12	3.44	10.0	4.5	3.0	.58	.5	.75	.375	1.44	.75	2.37	3.09	8 lb. 3 oz.
H11	11.25	7.37	5.12	8.0	6.75	4.56	.78	1.12	1.25	.562	2.25	1.12	3.75	4.72	12 lb. 14 oz.
H16	16.00	7.37	5.12	11.0	6.75	4.56	.78	1.12	1.25	.562	2.25	1.12	3.75	4.72	17 lb. 12 oz.

Narrow Profile



Case Size	W*	Approx. Weight
N8T	3.84	3 lb. 2 oz.
N8H	4.68	3 lb. 14 oz.

*W dimension includes TRANSISTOR on N8T case and HEATSINK on N8H case.

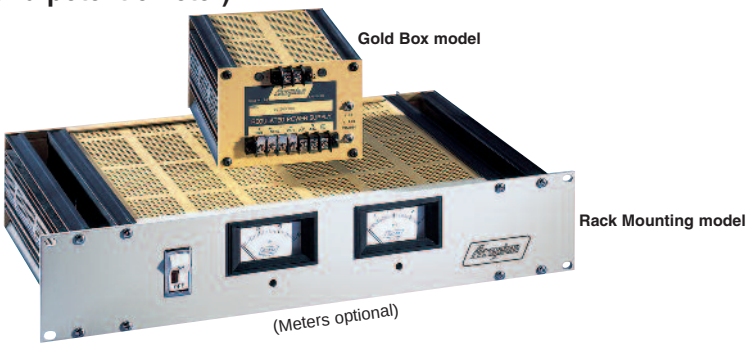
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Gold Box & Rack Mounting

WIDE ADJUST OUTPUT PROGRAMMABLE (with a control voltage or a potentiometer)

LINEAR REGULATED
AC-DC

- Shipped Within 3 Days (Gold Box models)
- Shipped Within 9 Days (Rack models)
- Five Year Warranty



These power supplies have the broad adjustment capability required for analog instrumentation and circuitry, process controls, basic research, and similar applications.

The output voltage may be manually controlled either at the power supply or remotely, or it may be programmed with the analog output from a PLC or digital-to-analog converter.

SPECIFICATIONS

Input Voltage: 105-125 VAC, 50-400 Hz, single phase.

Regulation, Ripple:
Line Regulation: ±0.005% or 2 mV, whichever is greater.
Load Regulation: ±0.005% or 2 mV, whichever is greater.
Ripple: 0.25 mV rms.

Remote Voltage Sensing: Provision for sensing the output voltage across the load, to compensate voltage drops in output wiring, is a standard feature.

Controls: Coarse and fine voltage adjustments are located on the front panel of Gold Box models and on the rear panel of Rack Mounting models.

Output Voltage Programming:

With a Control Voltage: The output voltage may be programmed from 0 to full rating by means of control voltage inputs of 0 to +10Vdc. Linearity, 1%.
Contact factory for information on other input ranges.

With a Potentiometer: The output voltage may be programmed by means of a remotely located 5K potentiometer.

Current Limiting: Rolloff characteristic with automatic recovery.

Polarity: Output is floating; either positive or negative terminal may be grounded or floated up to 300 volts above ground. When using a control voltage input, its negative side must be connected to the –S (sense) terminal.

Temperature Coefficient: 0.02%/°C (Typical).

Ambient Operating Temperature: –20 to +71°C.

Storage Temperature: –55 to +85°C.

Mounting (Gold Box models): Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket. To mount from the power supply side of the mounting surface or for DIN rail mounting, see accessory Mounting Kits on page 91.

OPTIONS

Overvoltage Protection: An internally mounted overvoltage protection circuit, set approximately 20% above the maximum output voltage rating of the supply, is available on all models. To order, add prefix "V" to the model number, and increase standard price as follows:

Maximum output of	6-50V	100V
Case size M6	$25.00	$35.00
Case size M9	25.00	35.00
Case size M13	25.00	35.00
Case size H11	25.00	35.00
Case size H16	75.00	85.00
Case size 3P11	35.00	45.00
Case size 5P12	35.00	45.00
Case size 3P17	35.00	
Case size 5P17	85.00	

Terminal Strip Cover: Clips on. To order, add suffix "M" to model number and $5.00 to price.

230 Volt Input: All models can be alternately furnished for operation on inputs of 210-250 VAC, 50-400 Hz. To order, add suffix "–230" to model number and $40.00 to price. (For models in case sizes M6, M9 and M13, add $25.00.) The "–230" option requires two additional days.

Ammeter (Rack Mounting models): Add suffix "A" to model number and $60.00 to price.

Voltmeter (Rack Mounting models): Add suffix "F" to model number and $60.00 to price.

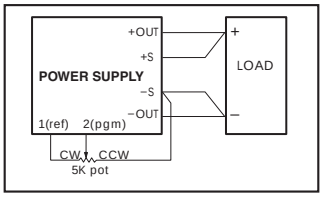
Handles (Rack Mounting models): Add suffix "H" to model number and $30.00 to price.

Front Panel Controls (Rack Mounting models): For voltage controls (coarse and fine) mounted on the front panel, instead of the standard screwdriver-slot adjustments at the rear, add suffix "P" to the model number and $25.00 to price.

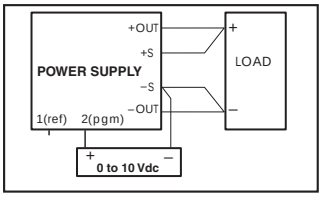
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GOLD BOX MODELS

Output Voltage Range	Output Current Amps. at 40°C	55°C	71°C	Case Size	Model	Price ($)
0-6	1.2	1.2	1.2	M6	Y06MX120	245
0-6	2.0	2.0	2.0	M6	Y06MX200	265
0-6	3.0	2.5	2.0	M6	Y06MX300	300
0-6	5.0	4.0	3.0	M9	Y06MX500	355
0-6	8.0	7.0	6.0	M13	Y06MX800	395
0-6	12.0	10.0	7.0	H11	Y06HX1200	480
0-6	16.0	13.0	10.0	H16	Y06HX1600	555
0-15	1.0	1.0	1.0	M6	Y015MX100	225
0-15	2.0	1.6	1.2	M6	Y015MX200	290
0-15	3.0	2.4	1.8	M9	Y015MX300	355
0-15	5.0	4.0	2.5	M13	Y015MX500	395
0-15	8.0	6.0	4.0	H11	Y015HX800	495
0-15	10.0	8.0	6.0	H16	Y015HX1000	555
0-30	.50	.50	.50	M6	Y030MX50	255
0-30	1.0	1.0	1.0	M6	Y030MX100	290
0-30	1.6	1.4	1.2	M9	Y030MX160	330
0-30	2.5	2.0	1.5	M13	Y030MX250	390
0-30	4.0	3.0	2.0	H11	Y030HX400	505
0-30	5.0	4.0	3.0	H16	Y030HX500	570
0-50	.35	.34	.33	M6	Y050MX35	275
0-50	.60	.50	.40	M6	Y050MX60	330
0-50	.85	.75	.65	M9	Y050MX85	380
0-50	1.2	.96	.72	M13	Y050MX120	445
0-50	2.4	1.9	1.4	H11	Y050HX240	560
0-50	3.0	2.4	1.8	H16	Y050HX300	645
0-100	.10	.09	.08	M6	Y0100MX10	330
0-100	.25	.20	.15	M6	Y0100MX25	380
0-100	.45	.36	.27	M9	Y0100MX45	435
0-100	.60	.48	.36	M13	Y0100MX60	490
0-100	1.2	.96	.72	H11	Y0100HX120	605
0-100	1.5	1.2	.90	H16	Y0100HX150	685



Programming with a Potentiometer

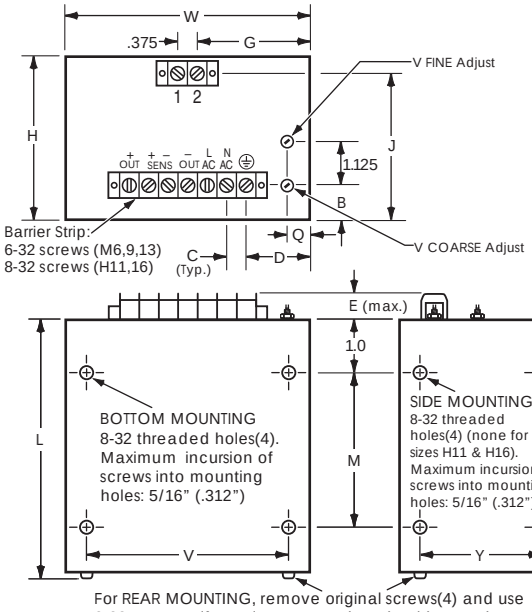


Programming with a Control Voltage

RACK MOUNTING MODELS

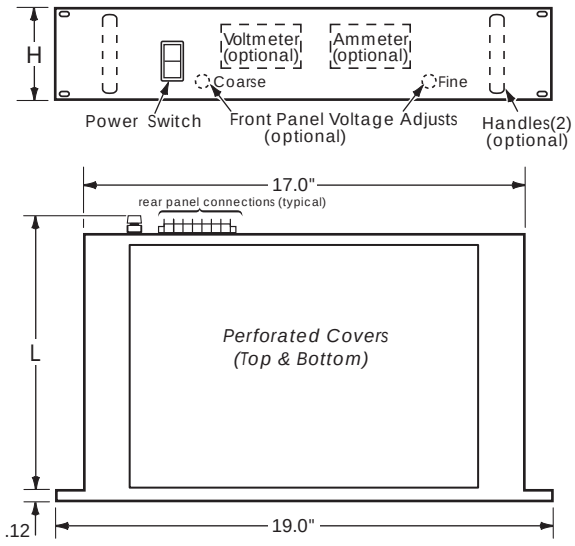
Output Voltage Range	Output Current Amps. at 40°C	55°C	71°C	Case Size	Model	Price ($)
0-6	10.0	8.0	6.0	3P11	Y06PX10	600
0-6	16.0	12.8	9.6	5P12	Y06PX16	720
0-6	23.0	18.4	13.8	3P17	Y06PX23	875
0-6	30.0	24.0	18.0	5P17	Y06PX30	1010
0-15	7.0	5.6	4.2	3P11	Y015PX7	600
0-15	10.0	8.0	6.0	5P12	Y015PX10	720
0-15	13.0	10.4	7.8	3P17	Y015PX13	875
0-30	4.0	3.2	2.4	3P11	Y030PX4	600
0-30	5.0	4.0	3.0	5P12	Y030PX5	720
0-30	7.0	5.6	4.2	3P17	Y030PX7	875
0-30	9.0	7.2	5.4	5P17	Y030PX9	1010
0-50	2.4	1.9	1.5	3P11	Y050PX2	600
0-50	3.0	2.4	1.8	5P12	Y050PX3	720
0-50	5.0	4.0	3.0	5P17	Y050PX5	1010
0-100	1.2	.9	.7	3P11	Y0100PX1.2	655
0-100	1.5	1.2	.9	5P12	Y0100PX1.5	825

Gold Box



Case Size	L	W	H	M	V	Y	E	Q	B	C	D	G	J	Approx. Weight
M6	6.59	5.12	3.44	4.0	4.5	3.0	.58	.5	.75	.375	1.44	2.37	3.09	5 lb. 10 oz.
M9	9.25	5.12	3.44	6.0	4.5	3.0	.58	.5	.75	.375	1.44	2.37	3.09	6 lb. 7 oz.
M13	13.25	5.12	3.44	10.0	4.5	3.0	.58	.5	.75	.375	1.44	2.37	3.09	8 lb. 8 oz.
H11	11.25	7.37	5.12	8.0	6.75	4.56	.78	1.12	1.25	.562	2.25	3.75	4.72	13 lb. 3 oz.
H16	16.00	7.37	5.12	11.0	6.75	4.56	.78	1.12	1.25	.562	2.25	3.75	4.72	18 lb.

Rack Mounting



Case Size	H	L	Approx. Weight
3P11	3½″	10⅞″	16 lb.
3P17	3½″	16 13/16″	26 lb.
5P12	5¼″	11 15/16″	20 lb.
5P17	5¼″	16 13/16″	30 lb.

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Gold Box & Narrow Profile

DUAL TRACKING OUTPUTS

LINEAR REGULATED
AC-DC

- Shipped Within 3 Days
- All Models U.L. Recognized
- CE (Gold Box models)
- Five Year Warranty



Narrow Profile

Gold Box

These dual output power supplies are a convenient source of the tracking voltages required for powering operational amplifiers and related circuits. Their positive/common/negative output terminal configuration minimizes system wiring. Provision for remote sensing permits compensation of load line effects. Although moderately priced, they are sturdily constructed and conservatively rated.

SPECIFICATIONS

Input Voltage: 105-125 VAC, 50-400 Hz, single phase.

Output Voltages: Tracking within 1%.

Load Regulation: ±0.1%.

Line Regulation: ±0.1%.

Ripple: 1.5 mV rms.

Polarity: Positive output, common, and negative output.

Remote Voltage Sensing: Standard.

Overload/Short Circuit Protection: Electronic current limiting.

Temperature Coefficient: 0.02%/°C (Typical).

Ambient Operating Temperature: –10 to +71°C.

Storage Temperature: –55 to +85°C.

Dimensions: See page 63 for case dimensions.

Mounting: Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket. To mount from the power supply side of the mounting surface or for DIN rail mounting, see accessory Mounting Kits on page 91.

OPTIONS

Overvoltage Protection: A built-in preset overvoltage protection circuit is available on all models. If either output fails, both outputs are 'crowbarred'. To order, add prefix "V" to the model number, and increase standard price by $30.00.

Terminal Strip Cover: Clips on. To order, add suffix "M" to model number and $5.00 to price.

230 Volt Input: All models can be alternately furnished for operation on inputs of 210-250 VAC, 50-400 Hz. To order, add suffix "–230" to model number and $25.00 to price. The "–230" option requires two additional days.

GOLD BOX MODELS

Nominal Output Voltages	Adjust Range ± V	Amps. per Output at 40°C	55°C	71°C	($) Price	Model	Case Size
±5	.5	.750	.650	.550	$230	TD5-75	TG5
±5	.5	1.5	1.25	1.0	$270	TD5-150	TG6
±5	.5	2.5	2.0	1.5	$325	TD5-250	TG9
±12	1	1.0	.900	.800	$235	TD12-100	TG5
±12	1	1.6	1.4	1.0	$275	TD12-160	TG6
±12	1	2.5	2.0	1.5	$325	TD12-250	TG9
±12	.5	4.5	3.7	3.0	$390	TD12-450	TG13
±12	.5	8.5	7.0	5.5	$495	TD12-850	TH11
±15	1	.400	.400	.400	$180	TD15-40	TG5
±15	1	1.0	.900	.800	$235	TD15-100	TG5
±15	1	1.6	1.4	1.0	$275	TD15-160	TG6
±15	1	2.5	2.0	1.5	$325	TD15-250	TG9
±15	.5	4.5	3.7	3.0	$390	TD15-450	TG13
±15	.5	8.5	7.0	5.5	$495	TD15-850	TH11

FRONT COVER CONNECTIONS:
(See page 63 for complete drawing.)



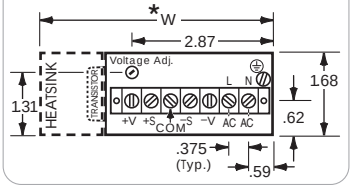
NARROW PROFILE MODELS
(for limited space applications)

Nominal Output Voltages	Adjust Range ± V	Amps. per Output at 40°C	55°C	71°C	($) Price	Model	Case Size
±12*	1	.500	.500	.400	$195	FD12-50A	TN6T
±12*	.5	1.0	.900	.800	$260	LD12-100	TN8H
±15*	1	.500	.500	.400	$195	FD15-50A	TN6T
±15*	.5	1.0	.900	.800	$260	LD15-100	TN8H

* Not CE certified.

See page 63 for complete drawing.

FRONT COVER for TN6T & TN8H cases.
* W dimension includes TRANSISTOR on TN6T case and HEATSINK on TN8H case.



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Gold Box

DUAL ISOLATED OUTPUTS
(User-selectable)

LINEAR REGULATED
AC-DC

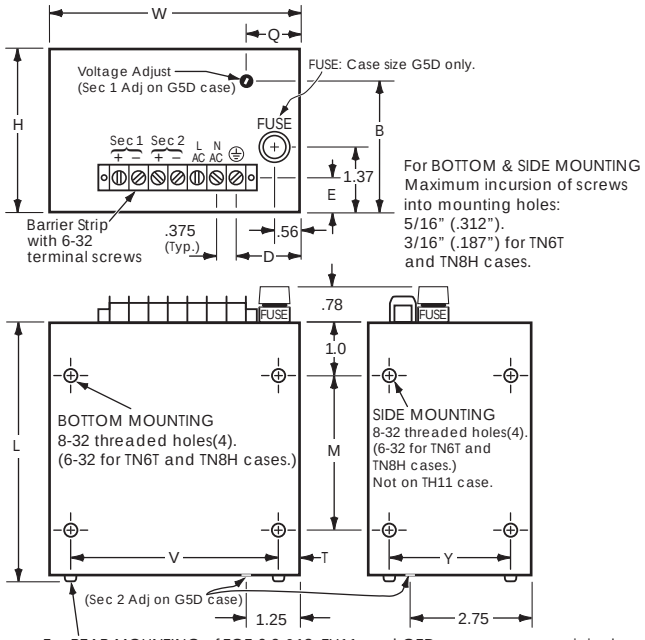


- Shipped Within 3 Days
- All Models U.L. Recognized
- Five Year Warranty

Acopian general purpose duals furnish two completely independent outputs, either identical or different, in less space and at less cost than two equivalent single output supplies. Thousands of output voltage/current rating combinations are available. Mounting and system wiring are simplified. Quality components, generously derated, insure long-term reliability.

Dual Tracking & Dual Isolated Case Sizes:

(on page 62) (on page 63)



For REAR MOUNTING of TG5,6,9 &13, TH11, and G5D cases, remove original screws(4) and use 8-32 Type F self-tapping screws. They should extend at least 5/16" (0.312") into the power supply case.
(When rear mounting G5D case, a hole is required in the mounting surface for access to the Section 2 output adjustment.)

For REAR MOUNTING of TN6T and TN8H cases, remove original 6-32 screws(4). These screws may then be used for mounting, provided they extend at least 1/4" (0.250") into the power supply case.

Case Size	L	W	H	M	V	Y	E	Q	B	D	T	Approx. Weight
G5D	5.09	5.12	3.44	3.0	4.50	3.0	.75	1.25	2.73	1.44	.31	4 lb.
TG5	5.09	5.12	3.44	3.0	4.50	3.0	.75	1.25	2.73	1.44	.31	3 lb. 4 oz.
TG6	6.59	5.12	3.44	4.0	4.50	3.0	.75	1.25	2.73	1.44	.31	4 lb. 4 oz.
TG9	9.25	5.12	3.44	6.0	4.50	3.0	.75	1.25	2.73	1.44	.31	6 lb. 8 oz.
TG13	13.25	5.12	3.44	10.0	4.50	3.0	.75	1.25	2.73	1.44	.31	12 lb.
TH11	11.25	7.37	5.12	8.0	6.75	4.56	.75	2.73	4.36	2.38	.31	18 lb. 4 oz.
TN6T	6.59	3.84*		4.0	3.12	1.31					.156	2 lb. 4 oz.
TN8H	8.47	4.68*		5.0	3.12	1.31					.156	3 lb. 14 oz.

* see page 62 for front cover drawing.

HOW TO ORDER: Select two **sections** (from the same table) on pages 64 and 65. The complete model number is the combination of the two **sections** selected. Example: The combination of section 5GT20D and section 8GT50D is Model 5GT20D-8GT50D. Always assign the lower voltage section first. (Two of the same section can also be selected.) For pricing purposes, add the costs of the individual sections selected.

SPECIFICATIONS

Input Voltage: 105-125 VAC, 50-400 Hz, single phase.

Output Specifications: See pages 64 and 65.

Short Circuit Protection: Delivers current surges without damage—built-in fuse protects supply against prolonged overloads and shorts.

Polarity: Outputs are floating. Each output may be independently connected to provide any combination of positive and negative voltages. Outputs may be floated up to 300 volts above ground.

Temperature Coefficient: 0.02%/°C (Typical).

Ambient Operating Temperature: –10 to +71°C.
No derating required.

Storage Temperature: –55 to +85°C.

Case size: G5D.

Mounting: Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket. To mount from the power supply side of the mounting surface or for DIN rail mounting, see accessory Mounting Kits on page 91.

OPTIONS

Overvoltage Protection: Two separate, preset overvoltage protection circuits, one for each output. To order, add prefix "V" to model number and add $30.00 to the standard price for 1.5 to 70 volt outputs; add $50.00 if either or both outputs are greater than 70 volts.

Terminal Strip Cover: Clips on. To order, add suffix "M" to model number and $5.00 to price.

230 Volt Input: All models can be alternately furnished for operation on inputs of 210-250 VAC, 50-400 Hz. To order, add suffix "–230" to model number and $25.00 to the standard price. The "–230" option requires two additional days.

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DUAL OUTPUT (User-selectable)

(OUTPUTS TO 500 MA)

Nominal Output Voltage	Adjust Range ± V	Output Current Amps.	Regulation Load ± %	Regulation Line ± %	Ripple mV RMS	(see 'How to Order') Price per Section ($)	(see 'How to Order') Section
1.5	.5	.200	.4	.05	1	$100	1.5GT20D
1.5	.5	.400	.5	.1	1	$110	1.5GT40D
2.5	.5	.200	.4	.05	1	$100	2.5GT20D
2.5	.5	.400	.5	.1	1	$110	2.5GT40D
3	.5	.200	.3	.05	1	$100	3GT20D
3	.5	.400	.5	.1	1	$110	3GT40D
3.3	.5	.200	.2	.05	1	$100	3.3GT20D
3.3	.5	.400	.3	.1	1	$110	3.3GT40D
5	.5	.200	.2	.05	1	$100	5GT20D
5	.5	.500	.3	.05	1	$110	5GT50D
6	1	.200	.05	.05	1	$100	6GT20D
6	1	.500	.15	.05	1	$110	6GT50D
7	1	.200	.05	.05	1	$100	7GT20D
7	1	.500	.15	.05	1	$110	7GT50D
8	1	.200	.05	.05	1	$100	8GT20D
8	1	.500	.1	.05	1	$110	8GT50D
9	1	.200	.05	.05	1	$100	9GT20D
9	1	.500	.1	.05	1	$110	9GT50D
10	1	.250	.05	.05	1	$100	10GT25D
10	1	.500	.1	.05	1	$110	10GT50D
11	1	.250	.05	.05	1	$100	11GT25D
11	1	.500	.1	.05	1	$110	11GT50D
12	1	.250	.05	.05	1	$100	12GT25D
12	1	.500	.1	.05	1	$110	12GT50D
13	1	.250	.05	.05	1	$100	13GT25D
13	1	.500	.1	.05	1	$110	13GT50D
15	1	.250	.05	.05	1	$100	15GT25D
15	1	.500	.1	.05	1	$110	15GT50D
16	1	.250	.05	.05	1	$100	16GT25D
16	1	.500	.1	.05	1	$110	16GT50D
17	1	.250	.05	.05	1	$100	17GT25D
17	1	.500	.1	.05	1	$110	17GT50D
18	1	.250	.05	.05	1	$100	18GT25D
18	1	.500	.1	.05	1	$110	18GT50D
19	1	.250	.05	.05	1	$100	19GT25D
19	1	.500	.1	.05	1	$110	19GT50D
20	1	.250	.05	.05	1	$100	20GT25D
20	1	.500	.1	.05	1	$110	20GT50D
21	1	.250	.05	.05	1	$100	21GT25D
21	1	.500	.1	.05	1	$110	21GT50D
22	1	.250	.05	.05	1	$100	22GT25D
22	1	.500	.1	.05	1	$110	22GT50D
23	1	.250	.05	.05	1	$100	23GT25D
23	1	.500	.1	.05	1	$110	23GT50D
24	1	.250	.05	.05	1	$100	24GT25D
24	1	.500	.05	.05	1	$110	24GT50D
25	1	.250	.05	.05	1	$100	25GT25D
25	1	.500	.05	.05	1	$110	25GT50D
26	1	.250	.05	.05	1	$100	26GT25D
26	1	.400	.05	.05	1	$110	26GT40D
28	1	.250	.05	.05	1	$100	28GT25D
28	1	.400	.05	.05	1	$110	28GT40D
30	1	.250	.05	.05	1	$100	30GT25D
30	1	.400	.05	.05	1	$110	30GT40D
31	1	.100	.05	.05	1	$100	31GT10D
31	1	.300	.05	.05	1	$110	31GT30D
32	1	.100	.05	.05	1	$100	32GT10D
32	1	.300	.05	.05	1	$110	32GT30D
33	1	.100	.05	.05	1	$100	33GT10D
33	1	.300	.05	.05	1	$110	33GT30D
34	1	.100	.05	.05	1	$100	34GT10D
34	1	.300	.05	.05	1	$110	34GT30D
35	1	.100	.05	.05	1	$100	35GT10D
35	1	.200	.05	.05	1	$110	35GT20D
36	1	.100	.05	.05	1	$100	36GT10D
36	1	.200	.05	.05	1	$110	36GT20D
38	1	.100	.05	.05	1	$100	38GT10D
38	1	.200	.05	.05	1	$110	38GT20D
40	1	.100	.05	.05	1	$100	40GT10D
40	1	.200	.05	.05	1	$110	40GT20D
42	1	.100	.05	.05	1	$100	42GT10D
42	1	.200	.05	.05	1	$110	42GT20D
44	1	.100	.05	.05	1	$100	44GT10D
44	1	.200	.05	.05	1	$110	44GT20D
45	1	.100	.05	.05	1	$100	45GT10D
45	1	.200	.05	.05	1	$110	45GT20D
46	1	.100	.05	.05	1	$100	46GT10D
46	1	.200	.05	.05	1	$110	46GT20D
48	1	.100	.05	.05	1	$105	48GT10D
48	1	.200	.05	.05	1	$115	48GT20D
50	1	.100	.05	.05	1	$105	50GT10D
50	1	.200	.05	.05	1	$115	50GT20D
52	1	.100	.05	.05	1	$110	52GT10D
52	1	.200	.05	.05	1	$120	52GT20D
54	1	.100	.05	.05	1	$110	54GT10D
54	1	.200	.05	.05	1	$120	54GT20D
55	1	.100	.05	.05	1	$110	55GT10D
55	1	.200	.05	.05	1	$120	55GT20D
56	1	.050	.05	.05	1	$110	56GT05D
56	1	.100	.05	.05	1	$120	56GT10D
58	1	.050	.05	.05	1	$110	58GT05D
58	1	.100	.05	.05	1	$120	58GT10D
60	1	.050	.05	.05	1	$110	60GT05D
60	1	.100	.05	.05	1	$120	60GT10D
62	1	.050	.05	.05	1	$110	62GT05D
62	1	.100	.05	.05	1	$120	62GT10D
64	1	.050	.05	.05	1	$110	64GT05D
64	1	.100	.05	.05	1	$120	64GT10D
65	1	.050	.05	.05	1	$110	65GT05D
65	1	.100	.05	.05	1	$120	65GT10D
67	1	.050	.05	.05	1	$110	67GT05D
67	1	.100	.05	.05	1	$120	67GT10D
68	1	.050	.05	.05	1	$110	68GT05D
68	1	.100	.05	.05	1	$120	68GT10D
69	1	.050	.05	.05	1	$110	69GT05D
69	1	.100	.05	.05	1	$120	69GT10D
70	1	.050	.05	.05	1	$110	70GT05D
70	1	.100	.05	.05	1	$120	70GT10D
75	1	.050	.05	.05	1	$110	75GT05D
75	1	.100	.05	.05	1	$120	75GT10D
76	1	.020	.05	.05	1	$110	76GT02D
76	1	.050	.05	.05	1	$120	76GT05D
80	1	.020	.05	.05	1	$110	80GT02D
80	1	.050	.05	.05	1	$120	80GT05D
85	1	.020	.05	.05	1	$115	85GT02D
85	1	.050	.05	.05	1	$130	85GT05D
90	1	.020	.05	.05	1	$115	90GT02D
90	1	.050	.05	.05	1	$130	90GT05D
95	1	.020	.05	.05	1	$120	95GT02D
95	1	.050	.05	.05	1	$135	95GT05D
100	1	.020	.05	.05	1	$130	100GT02D
100	1	.050	.05	.05	1	$140	100GT05D

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DUAL OUTPUT (User-selectable)

(OUTPUTS TO 2 AMPS.)

Nominal Output Voltage	Adjust Range ± V	Output Current Amps.	Regulation Load ± %	Regulation Line ± %	Ripple mV RMS	(see 'How to Order') Price per Section ($)	(see 'How to Order') Section
1.5	.5	.400	.5	.1	1	$110	1.5GT40D
2.5	.5	.400	.5	.1	1	$110	2.5GT40D
3	.5	.400	.5	.1	1	$110	3GT40D
3	.5	.700	.5	.1	1	$115	3GT70D
3	.5	1.0	.5	.1	1	$120	3GT100D
3.3	.5	.400	.3	.1	1	$110	3.3GT40D
3.3	.5	.700	.4	.1	1	$115	3.3GT70D
3.3	.5	1.0	.5	.1	1	$120	3.3GT100D
5	.5	.500	.3	.05	1	$110	5GT50D
5	.5	.700	.4	.05	1	$115	5GT70D
5	.5	1.0	.5	.05	1	$120	5GT100D
5	.25	2.0	.5	.05	1	$140	5GT200D
6	1	.500	.15	.05	1	$110	6GT50D
6	.5	.700	.2	.05	1	$115	6GT70D
6	.5	1.0	.3	.05	1	$120	6GT100D
7	1	.500	.15	.05	1	$110	7GT50D
7	.5	.700	.2	.05	1	$115	7GT70D
7	.5	1.0	.3	.05	1	$120	7GT100D
8	1	.500	.1	.05	1	$110	8GT50D
8	.5	.700	.15	.05	1	$115	8GT70D
8	.5	1.0	.2	.05	1	$120	8GT100D
9	1	.500	.1	.05	1	$110	9GT50D
9	.5	.700	.15	.05	1	$115	9GT70D
9	.5	1.0	.2	.05	1	$120	9GT100D
10	1	.500	.1	.05	1	$110	10GT50D
10	.5	.700	.15	.05	1	$115	10GT70D
10	.5	1.0	.2	.05	1	$120	10GT100D
12	1	.500	.1	.05	1	$110	12GT50D
12	.5	.700	.1	.05	1	$115	12GT70D
12	.5	1.0	.1	.05	1	$120	12GT100D
14	1	.500	.1	.05	1	$110	14GT50D
14	.5	.700	.1	.05	1	$115	14GT70D
14	.5	1.0	.1	.05	1	$120	14GT100D
15	1	.500	.1	.05	1	$110	15GT50D
15	.5	.700	.1	.05	1	$115	15GT70D
15	.5	1.0	.1	.05	1	$120	15GT100D
16	1	.500	.1	.05	1	$110	16GT50D
16	.5	.700	.1	.05	1	$115	16GT70D
16	.5	1.0	.1	.05	1	$130	16GT100D
18	1	.500	.1	.05	1	$110	18GT50D
18	.5	.700	.1	.05	1	$115	18GT70D
18	.5	1.0	.1	.05	1	$130	18GT100D
19	1	.500	.1	.05	1	$110	19GT50D
19	.5	.750	.1	.05	1	$120	19GT75D
20	1	.500	.1	.05	1	$110	20GT50D
20	.5	.750	.1	.05	1	$120	20GT75D

(90 TO 150 VOLTS)

Nominal Output Voltage	Adjust Range ± V	Output Current Amps.	Regulation Load ± %	Regulation Line ± %	Ripple mV RMS	(see 'How to Order') Price per Section ($)	(see 'How to Order') Section
90	1	.050	.05	.05	1	$130	90GT05D
90	1	.100	.05	.05	1	$145	90GT10D
95	1	.050	.05	.05	1	$135	95GT05D
95	1	.100	.05	.05	1	$150	95GT10D
100	1	.050	.05	.05	1	$140	100GT05D
100	1	.100	.05	.05	1	$155	100GT10D
105	1	.050	.05	.05	1	$140	105GT05D
105	1	.100	.05	.05	1	$155	105GT10D
110	1	.050	.05	.05	1	$145	110GT05D
110	1	.100	.05	.05	1	$160	110GT10D
115	1	.050	.05	.05	1	$145	115GT05D
115	1	.100	.05	.05	1	$160	115GT10D
120	1	.050	.05	.05	1	$150	120GT05D
120	1	.100	.05	.05	1	$165	120GT10D
125	1	.050	.05	.05	1	$155	125GT05D
125	1	.100	.05	.05	1	$170	125GT10D
130	1	.050	.05	.05	1	$155	130GT05D
130	1	.100	.05	.05	1	$170	130GT10D
135	1	.050	.05	.05	1	$155	135GT05D
135	1	.100	.05	.05	1	$170	135GT10D
140	1	.050	.05	.05	1	$155	140GT05D
140	1	.100	.05	.05	1	$170	140GT10D
145	1	.050	.05	.05	1	$155	145GT05D
145	1	.100	.05	.05	1	$170	145GT10D
150	1	.050	.05	.05	1	$155	150GT05D
150	1	.100	.05	.05	1	$170	150GT10D

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Acopian

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DUAL ISOLATED OUTPUTS
(5v/12v combinations)

LINEAR REGULATED
AC-DC



- Shipped Within 3 Days
- All Models U.L. Recognized
- CE
- Five Year Warranty

Dual isolated output power supplies may be connected to provide any desired arrangement of positive and negative output voltages. Each voltage is independently adjustable. No derating is required up to +60°C. A separate overvoltage protector on each output is available as a built-in option.

SPECIFICATIONS

Input Voltage: 105-125 VAC, 50-400 Hz, single phase.

Polarity: Outputs are floating. Each may be independently connected to provide any combination of positive and negative voltages. Outputs may be floated up to 300 volts above ground.

Temperature Coefficient: 0.02%/°C (Typical).

Ambient Operating Temperature: –10 to +60°C. No derating required.

Storage Temperature: –55 to +85°C.

Mounting: Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket. To mount from the power supply side of the mounting surface or for DIN rail mounting, see accessory Mounting Kits on page 91.

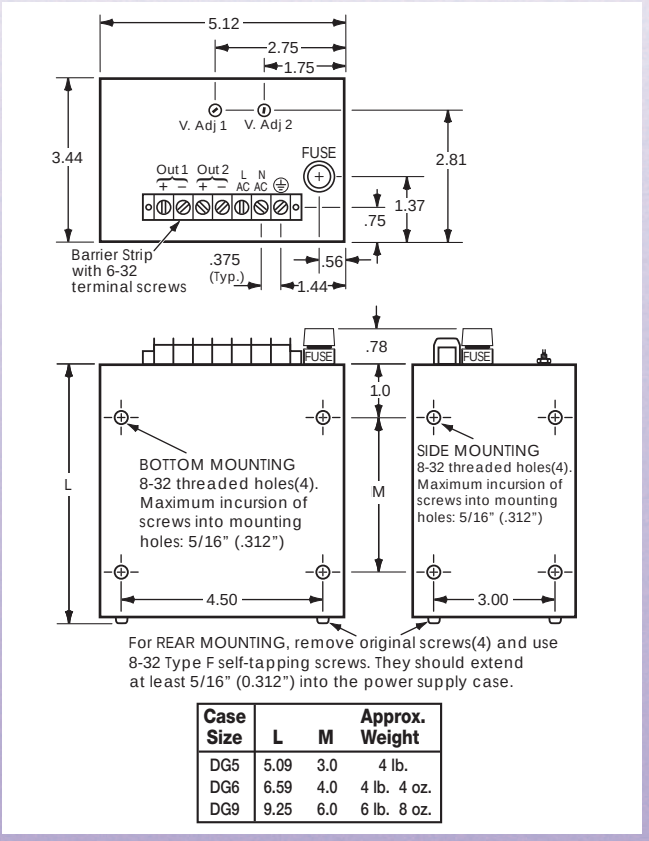
OPTIONS

Overvoltage Protection: Two separate, preset overvoltage protection circuits, one for each output. To order, add prefix "V" to model number and add $45.00 to the standard price.

Terminal Strip Cover: Clips on. To order, add suffix "M" to model number and $5.00 to price.

230 Volt Input: All models can be alternately furnished for operation on inputs of 210-250 VAC, 50-400 Hz. To order, add suffix "–230" to model number and $25.00 to the standard price. The "–230" option requires two additional days.

Nominal Output Voltages	Adjust Range ± V	Output Current Amps.	Regulation Load ± %	Regulation Line ± %	Ripple mV RMS	($) Price	Model	Case Size
5 12	.25 1	2.0 .600	.15 .15	.15 .15	1 1	$235	512D5A	DG5
5 12	.25 1	3.0 1.2	.15 .15	.15 .15	1 1	$270	512D6A	DG6
5 12	.25 1	6.0 2.4	.15 .15	.15 .15	1 1	$330	512D9A	DG9



Case Size	L	M	Approx. Weight
DG5	5.09	3.0	4 lb.
DG6	6.59	4.0	4 lb. 4 oz.
DG9	9.25	6.0	6 lb. 8 oz.

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Gold Box

TRIPLE ISOLATED OUTPUTS

LINEAR REGULATED
AC-DC

- Shipped Within 3 Days
- All Models U.L. Recognized
- CE
- Five Year Warranty



Triple isolated output power supplies provide the features and characteristics of three supplies in one compact, easy-to-use package. They are available in the voltage combinations most frequently required for driving microprocessors and associated circuitry.

SPECIFICATIONS

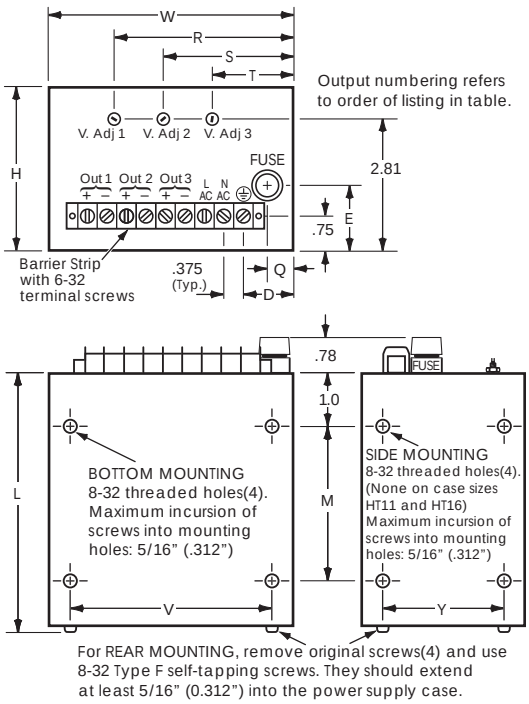
Input Voltage: 105-125 VAC, 50-400 Hz, single phase.
Polarity: Outputs are floating. Each output may be independently connected to provide any combination of positive and negative voltages. Outputs may be floated up to 300 volts above ground.
Temperature Coefficient: 0.02%/°C (Typical).
Ambient Operating Temperature: –10 to +60°C. No derating required.
Storage Temperature: –55 to +85°C.
Accessory Mounting Kits: See page 91.

OPTIONS

Overvoltage Protection: Separate overvoltage protection circuit on each output. Add prefix "3V" to model number and increase standard price as follows:

Case sizes GT5 - GT13 . . . .$45.00
Case size HT11 . . . . . .65.00
Case size HT16 . . . . . .95.00

Terminal Strip Cover: Clips on. To order, add suffix "M" to model number and $5.00 to price.
230 Volt Input: Add suffix "–230" to the model number and $25.00 to the price. Requires two additional days.



Case Size	L	W	H	M	V	Y	D	E	Q	R	S	T	Approx. Weight
GT5	5.09	5.12	3.44	3.0	4.50	3.0	1.06	1.37	.56	3.75	2.75	1.75	4 lb. 14 oz.
GT6	6.59	5.12	3.44	4.0	4.50	3.0	1.06	1.37	.56	3.75	2.75	1.75	5 lb. 8 oz.
GT9	9.25	5.12	3.44	6.0	4.50	3.0	1.06	1.37	.56	3.75	2.75	1.75	7 lb. 4 oz.
GT13	13.25	5.12	3.44	10.0	4.50	3.0	1.06	1.37	.56	3.75	2.75	1.75	12 lb.
HT11	11.25	7.37	5.12	8.0	6.75	4.56	2.18	3.25	1.13	4.88	3.88	2.88	18 lb. 4 oz.
HT16	16.00	7.37	5.12	11.0	6.75	4.56	2.18	3.25	1.13	4.88	3.88	2.88	26 lb.

Nominal Output Voltages	Adjust Range ± V	Output Current Amps.	Regulation Load ± %	Regulation Line ± %	Ripple mV RMS	($) Price	Model	Case Size
5 5 12	.25 .25 1	3.0 1.0 .600	.15 .15 .15	.15 .15 .15	1 1 1	$285	5512T6A	GT6
5 5 12	.25 .25 1	6.0 2.0 1.2	.15 .15 .15	.15 .15 .15	1 1 1	$350	5512T9A	GT9
5 9 12	.25 1 1	6.0 1.4 1.2	.15 .15 .15	.15 .15 .15	1 1 1	$350	5912T9A	GT9
5 12 12	.25 1 1	2.0 .300 .300	.15 .15 .15	.15 .15 .15	1 1 1	$255	51212T5A	GT5
5 12 12	.25 1 1	3.0 .600 .600	.15 .15 .15	.15 .15 .15	1 1 1	$285	51212T6A	GT6
5 12 12	.25 1 1	6.0 1.2 1.2	.15 .15 .15	.15 .15 .15	1 1 1	$350	51212T9A	GT9
5 12 12	.25 1 1	8.0 1.3 1.3	.15 .15 .15	.15 .15 .15	1 1 1	$390	51212T13A	GT13
5 12 12	.5 1 1	15.0 2.0 2.0	.15 .15 .15	.15 .15 .15	1 1 1	$465	51212T11A	HT11

Nominal Output Voltages	Adjust Range ± V	Output Current Amps.	Regulation Load ± %	Regulation Line ± %	Ripple mV RMS	($) Price	Model	Case Size
5 12 12	.5 1 1	20.0 3.0 3.0	.15 .15 .15	.15 .15 .15	1 1 1	$525	51212T16A	HT16
5 15 15	.25 1 1	2.0 .250 .250	.15 .15 .15	.15 .15 .15	1 1 1	$255	51515T5A	GT5
5 15 15	.25 1 1	3.0 .500 .500	.15 .15 .15	.15 .15 .15	1 1 1	$285	51515T6A	GT6
5 15 15	.25 1 1	6.0 1.0 1.0	.15 .15 .15	.15 .15 .15	1 1 1	$350	51515T9A	GT9
5 15 15	.25 1 1	8.0 1.1 1.1	.15 .15 .15	.15 .15 .15	1 1 1	$390	51515T13A	GT13
5 15 15	.5 1 1	15.0 1.5 1.5	.15 .15 .15	.15 .15 .15	1 1 1	$465	51515T11A	HT11
5 15 15	.5 1 1	20.0 2.5 2.5	.15 .15 .15	.15 .15 .15	1 1 1	$525	51515T16A	HT16

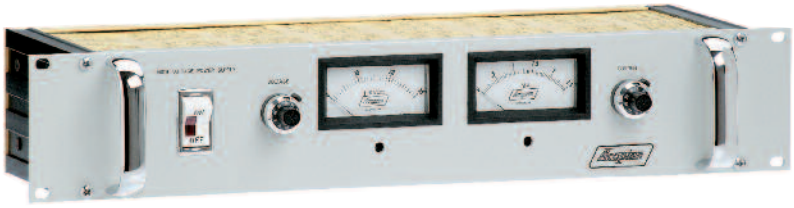
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High Voltage AC-DC

RACK MOUNTING
REGULATED

Output ranges: 0 - 1,000 volts to 0 - 30,000 volts

- Shipped Within 9 Days
- Five Year Warranty
  (internal encapsulated module - One Year)



Ideal for laboratory and instrumentation applications, these rack mounting supplies have the same output ratings and specifications as the modular supplies shown on pages 70 and 71, but additionally feature calibrated ten-turn controls (with locking vernier dials) for precisely setting voltage and current. Voltmeter, ammeter and handles are standard. An 8´ long shielded output cable is included.

SPECIFICATIONS

Input Voltage: 105-125 VAC, 50-400 Hz, single phase.

Input Current:
30 watt output ratings: 0.6A
60 watt output ratings: 1.2A

Output Polarity: Positive output is standard. For negative output, change first letter of model number from P to N.

Regulation (constant voltage operation):
Line: ±0.05%
Load: ±0.05%

Regulation (constant current operation):
Line: ±0.1%
Load: ±0.1% plus 50 µA.

Ripple: 0.05%, peak-to-peak.

Output Controls: Voltage and current may be controlled by means of two 10-turn front panel adjustments with locking vernier dials. Control linearity is 1% of full rated output. Calibration accuracy is 1% of rated output plus 1% of setting. (Remotely located 1000 ohm potentiometers may alternately be used for output control.)

Metering: Voltmeter and ammeter are standard. Accuracy is 2% of full scale.

Voltage Monitor Terminal: Permits remote monitoring of output voltage, stepped down by ratio shown. Accuracy is 2% of maximum rated output voltage.

Current Monitor Terminal: Permits remote monitoring of output current, at mV/mA ratio shown. Accuracy is 2% of maximum rated output current.

Inhibit Terminal: Grounding inhibits output.

Input Protection: "Soft start" circuit minimizes start-up power stresses.

Output Programming: Output voltage and current may be programmed from 0 to full rating by means of control voltage inputs of 0 to +5.1 Vdc, ±2%.

Output Protection: Current regulation circuit protects power supply from short circuits, overload, and arcing.

Response Time: Less than 5 mS for 100 µA load step change.

Stability: 0.05% over eight hours, after 30 minute warmup.

Temperature Coefficient: 200 PPM/°C = 0.02%/°C (Typical).

Ambient Operating Temperature: –10 to +60°C. No derating required.

Storage Temperature: –20 to +85°C.

Humidity: Maximum of 90% relative, non-condensing.

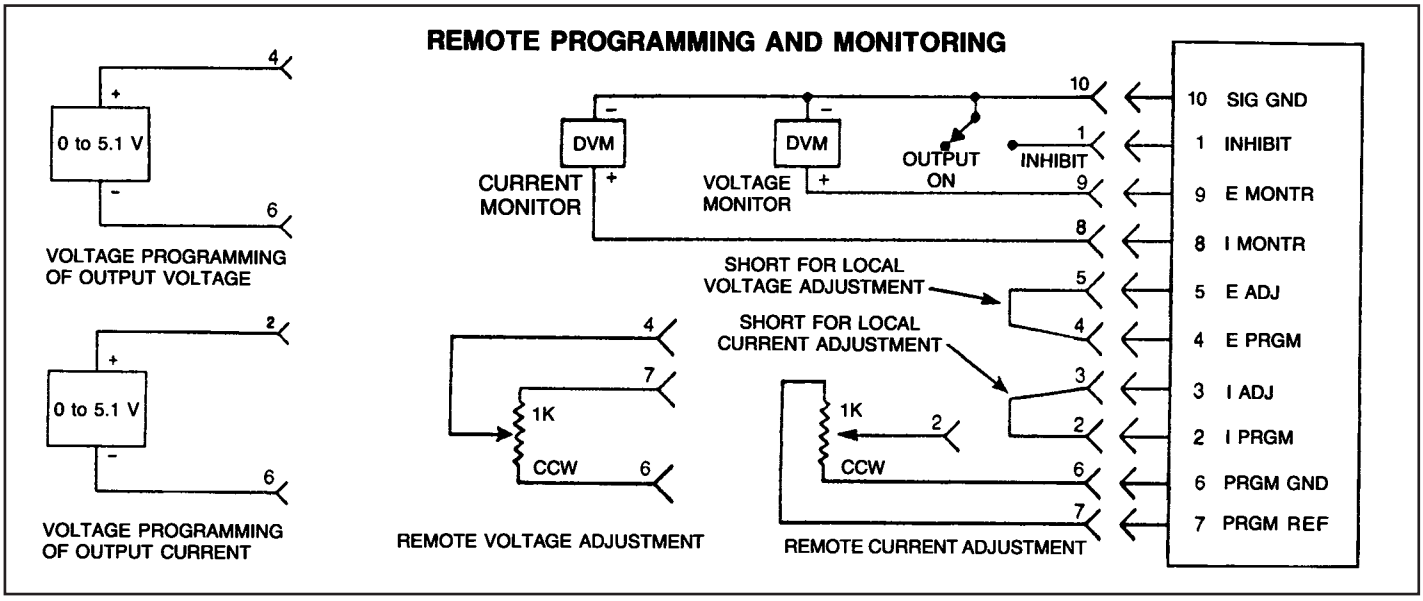
Connections:
Input, Control and Monitoring: Screw terminals.
Output: High voltage connector (Type varies with model number). An 8´ shielded output cable, with mating connector installed, is provided.

OPTIONS

Terminal Strip Cover: Clips on AC input terminal strip. To order, add suffix "M" to model number and $5.00 to price.

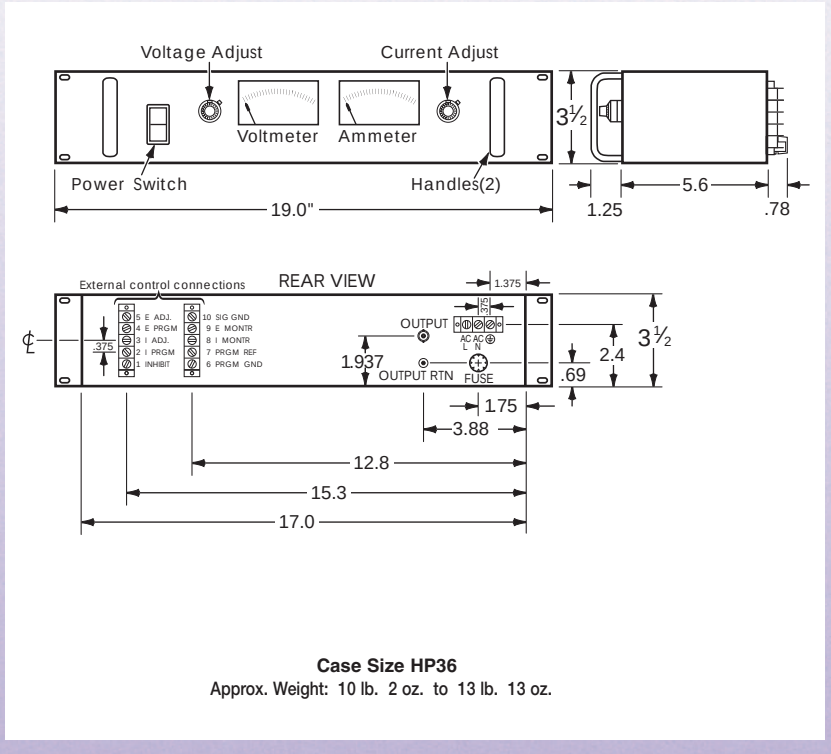
230 Volt Input: All models can be alternately furnished for operation on inputs of 210-250 VAC, 50-400 Hz, single phase. To order, add suffix "–230" to model number and add $40.00 to price. The "–230" option requires two additional days.

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Output Range kVdc	Output Current mA	Output Monitor Ratio		($) Price	Model (Positive Output)*
		Voltage	Current mV/mA		
0-1	30	1,000:1	100:1	1090	P01HP30
0-1	60	1,000:1	10:1	1195	P01HP60
0-1.5	20	1,000:1	100:1	1195	P01.5HP20
0-1.5	40	1,000:1	100:1	1305	P01.5HP40
0-2	15	1,000:1	100:1	1090	P02HP15
0-2	30	1,000:1	100:1	1195	P02HP30
0-2.5	12	1,000:1	100:1	1090	P02.5HP12
0-2.5	24	1,000:1	100:1	1195	P02.5HP24
0-3.5	8.5	1,000:1	100:1	1090	P03.5HP8.5
0-3.5	17	1,000:1	100:1	1195	P03.5HP17
0-5	6	10,000:1	100:1	1145	P05HP6
0-5	12	10,000:1	100:1	1255	P05HP12
0-7.5	4	10,000:1	100:1	1145	P07.5HP4
0-7.5	8	10,000:1	100:1	1255	P07.5HP8
0-10	3	10,000:1	1,000:1	1145	P010HP3
0-10	6	10,000:1	100:1	1255	P010HP6
0-12	2.5	10,000:1	1,000:1	1145	P012HP2.5
0-12	5	10,000:1	100:1	1255	P012HP5
0-15	2	10,000:1	1,000:1	1195	P015HP2
0-15	4	10,000:1	100:1	1305	P015HP4
0-18	1.6	10,000:1	1,000:1	1195	P018HP1.6
0-18	3.2	10,000:1	1,000:1	1305	P018HP3.2
0-20	1.5	10,000:1	1,000:1	1195	P020HP1.5
0-20	3	10,000:1	1,000:1	1305	P020HP3
0-22	1.3	10,000:1	1,000:1	1255	P022HP1.3
0-22	2.6	10,000:1	1,000:1	1360	P022HP2.6
0-25	1.2	10,000:1	1,000:1	1305	P025HP1.2
0-25	2.4	10,000:1	1,000:1	1415	P025HP2.4
0-30	1	10,000:1	1,000:1	1305	P030HP1
0-30	2	10,000:1	1,000:1	1415	P030HP2

* Positive output is standard. For negative output, change first letter of model number from P to N.



Case Size HP36
Approx. Weight: 10 lb. 2 oz. to 13 lb. 13 oz.

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High Voltage AC-DC

MODULAR
REGULATED

Output ranges:
0 - 1,000 volts to 0 - 30,000 volts

- Shipped Within 6 Days
- Five Year Warranty
  (internal encapsulated module - One Year)



These modular High Voltage supplies may be used as constant voltage or constant current sources. They may be remotely programmed by means of either voltage or resistance, and have provisions for remote monitoring and output inhibiting. All control and monitoring connections are on a pluggable terminal block that functions as a connector, providing wiring convenience and permitting easy and rapid connect/disconnect. Outputs are arc/short circuit protected.

SPECIFICATIONS

Input Voltage: 105-125 VAC, 50-400 Hz, single phase.

Output Polarity: Positive output is standard. For negative output, change first letter of model number from P to N.

Regulation (constant voltage operation):
Line: ±0.05%
Load: ±0.05%

Regulation (constant current operation):
Line: ±0.1%
Load: ±0.1% plus 50 µA.

Ripple: 0.05%, peak-to-peak.

Output Controls: Voltage and current may be controlled by means of two 20-turn front panel adjustments, or by using remotely located 1000 ohm potentiometers.

Output Programming: Output voltage and current may be programmed from 0 to full rating by means of control voltage inputs of 0 to +5.1 Vdc.

Voltage Monitor Terminal: Permits monitoring output voltage, stepped down by ratio shown. Accuracy is 2% of maximum rated output voltage.

Current Monitor Terminal: Permits monitoring output current at mV/mA ratio shown. Accuracy is 2% of maximum rated output current.

Inhibit Terminal: Grounding inhibits output.

Input Protection: "Soft start" circuit minimizes start-up power stresses.

Output Protection: Current regulation circuit protects power supply from short circuits, overload, and arcing.

Efficiency: Greater than 70% at full load.

Response Time: Less than 5 mS for 100 µA load step change.

Stability: 0.05% over eight hours, after 30 minute warmup.

Temperature Coefficient: 200 PPM/°C = 0.02%/°C (Typical).

Ambient Operating Temperature: –10 to +60°C. No derating required.

Storage Temperature: –20 to +85°C.

Humidity: Maximum of 90% relative, non-condensing.

Connections: 24˝ flying lead for high side of output and 5-way binding post for return (ground) are at the rear. AC input connections on separate terminal strip. All other connections on pluggable terminal block.

Mounting: Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket, or they may be used on a test bench or tabletop. To mount from the power supply side of the mounting surface, see accessory Mounting Kit GB8 on page 91.

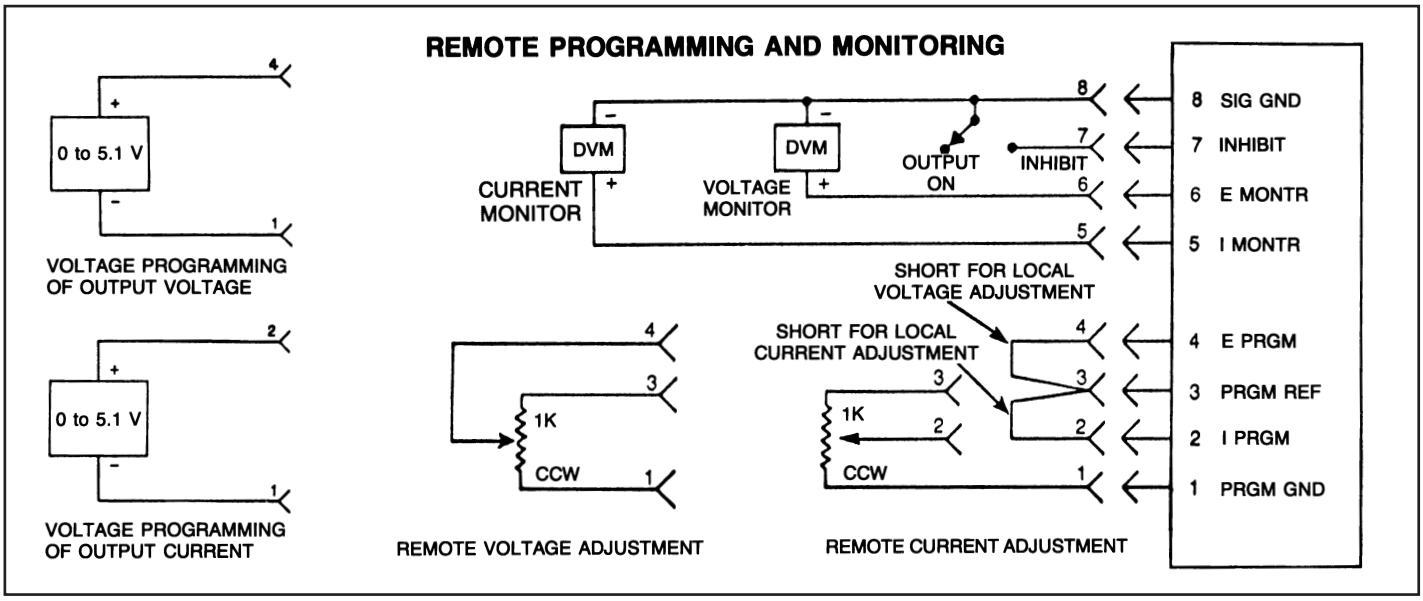
OPTIONS

Terminal Strip Cover: Clips on AC input terminal strip. To order, add suffix "M" to model number and $5.00 to price.

Output Connector: Models with an output of 5000 volts or less can be provided with an MHV connector (and 8˝ long detachable shielded output cable with mating MHV connector installed on one end) instead of the flying lead. To order, add suffix letter "T" to the model number and $50.00 to price.

230 Volt Input: For operation on inputs of 210-250 VAC, 50-400 Hz, single phase. To order, add suffix "–230" to model number and $40.00 to price. The "–230" option requires two additional days.

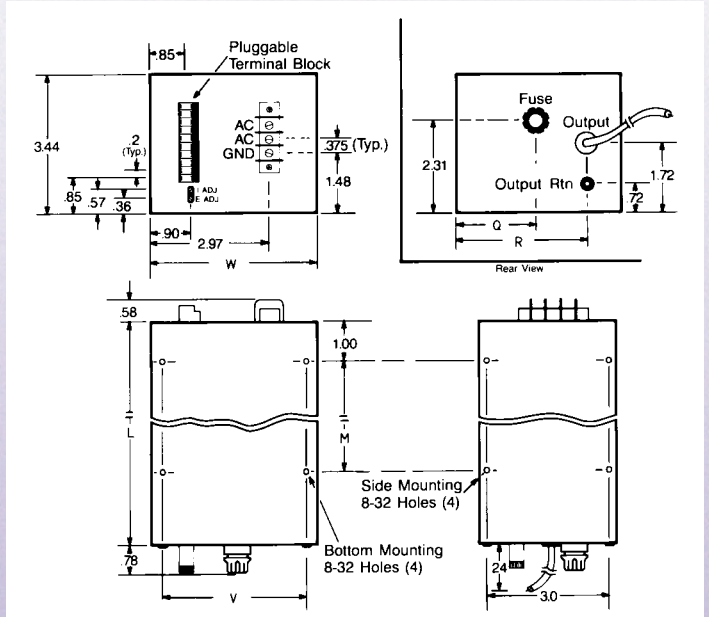
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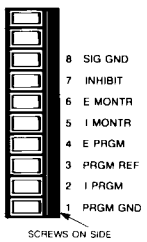
AC-DC MODELS

Output Range kVdc	Output Current mA	Output Monitor Ratio Voltage	Output Monitor Ratio Current mV/mA	($) Price	Model (Positive Output)*	Case Size
0-1	30	1,000:1	100:1	650	P01HA30	HA349
0-1	60	1,000:1	10:1	760	P01HA60	HA359
0-1.5	20	1,000:1	100:1	650	P01.5HA20	HA349
0-1.5	40	1,000:1	100:1	760	P01.5HA40	HA359
0-2	15	1,000:1	100:1	650	P02HA15	HA349
0-2	30	1,000:1	100:1	760	P02HA30	HA359
0-2.5	12	1,000:1	100:1	650	P02.5HA12	HA349
0-2.5	24	1,000:1	100:1	760	P02.5HA24	HA359
0-3.5	8.5	1,000:1	100:1	650	P03.5HA8.5	HA349
0-3.5	17	1,000:1	100:1	760	P03.5HA17	HA359
0-5	6	10,000:1	100:1	720	P05HA6	HA349
0-5	12	10,000:1	100:1	830	P05HA12	HA359
0-7.5	4	10,000:1	100:1	720	P07.5HA4	HA349
0-7.5	8	10,000:1	100:1	830	P07.5HA8	HA359
0-10	3	10,000:1	1,000:1	720	P010HA3	HA349
0-10	6	10,000:1	100:1	830	P010HA6	HA359
0-12	2.5	10,000:1	1,000:1	720	P012HA2.5	HA349
0-12	5	10,000:1	100:1	830	P012HA5	HA359
0-15	2	10,000:1	1,000:1	760	P015HA2	HA349
0-15	4	10,000:1	100:1	870	P015HA4	HA359
0-18	1.6	10,000:1	1,000:1	760	P018HA1.6	HA349
0-18	3.2	10,000:1	1,000:1	870	P018HA3.2	HA359
0-20	1.5	10,000:1	1,000:1	870	P020HA1.5	HA349
0-20	3	10,000:1	1,000:1	975	P020HA3	HA359
0-22	1.3	10,000:1	1,000:1	870	P022HA1.3	HA349
0-22	2.6	10,000:1	1,000:1	975	P022HA2.6	HA359
0-25	1.2	10,000:1	1,000:1	975	P025HA1.2	HA349
0-25	2.4	10,000:1	1,000:1	1085	P025HA2.4	HA359
0-30	1	10,000:1	1,000:1	975	P030HA1	HA349
0-30	2	10,000:1	1,000:1	1085	P030HA2	HA359

* Positive output is standard. For negative output, change first letter of model number from P to N.



PLUGGABLE TERMINAL BLOCK CONNECTIONS



Case Size	L	W	M	V	Q	R	Approx. Weight
HA349	8.82	4.13	6.00	3.50	2.00	3.25	6 lb. 8 oz.
HA359	9.33	5.13	7.00	4.50	2.78	4.25	10 lb.

High Voltage DC-DC

MODULAR
REGULATED

Output ranges: 0 - 1,000 volts to 0 - 30,000 volts



- Shipped Within 6 Days
- Five Year Warranty
  (internal encapsulated module - One Year)

DC inputs from 21.6 to 32.0 volts may be used for these versatile power supplies. Although their outputs are continuously adjustable from 0 to their maximum ratings, 20-turn controls permit precise setability.

These supplies have been designed to withstand severe arcing and short circuits without damage. They are ruggedly constructed with quality components to provide many years of reliable service.

SPECIFICATIONS

Input Voltage: +21.6 to 32.0 Vdc.

Output Polarity: Positive output is standard. For negative output, change first letter of model number from P to N.

Regulation (constant voltage operation):
Line: ±0.05%
Load: ±0.05%

Regulation (constant current operation):
Line: ±0.1%
Load: ±0.1% plus 50 µA.

Ripple: 0.05%, peak-to-peak.

Output Controls: Voltage and current may be controlled by means of two 20-turn front panel adjustments, or by using remotely located 1000 ohm potentiometers.

Output Programming: Output voltage and current may be programmed from 0 to full rating by means of control voltage inputs of 0 to +5.1 Vdc.

Voltage Monitor Terminal: Permits monitoring output voltage, stepped down by ratio shown. Accuracy is 2% of maximum rated output voltage.

Current Monitor Terminal: Permits monitoring output current at mV/mA ratio shown. Accuracy is 2% of maximum rated output current.

Inhibit Terminal: Grounding inhibits output.

Input Protection: "Soft start" circuit minimizes start-up power stresses.

Output Protection: Current regulation circuit protects power supply from short circuits, overload, and arcing.

Efficiency: Greater than 70% at full load.

Response Time: Less than 5 mS for 100 µA load step change.

Stability: 0.05% over eight hours, after 30 minute warmup.

Temperature Coefficient: 200 PPM/°C = 0.02%/°C (Typical).

Ambient Operating Temperature: –10 to +60°C. No derating required.

Storage Temperature: –20 to +85°C.

Humidity: Maximum of 90% relative, non-condensing.

Connections: 24˝ flying lead for high side of output and 5-way binding post for return (ground). All other connections on pluggable terminal block.

Mounting: Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket, or they may be used on a test bench or tabletop. To mount from the power supply side of the mounting surface or for DIN rail mounting, see accessory Mounting Kits on page 91.

OPTIONS

Output Connector: Models with an output of 5000 volts or less can be provided with an MHV connector (and 8´ long detachable shielded output cable with mating MHV connector installed on one end) instead of the flying lead. To order, add suffix letter "T" to the model number and $50.00 to price.

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OPTIONAL OUTPUT CONNECTOR

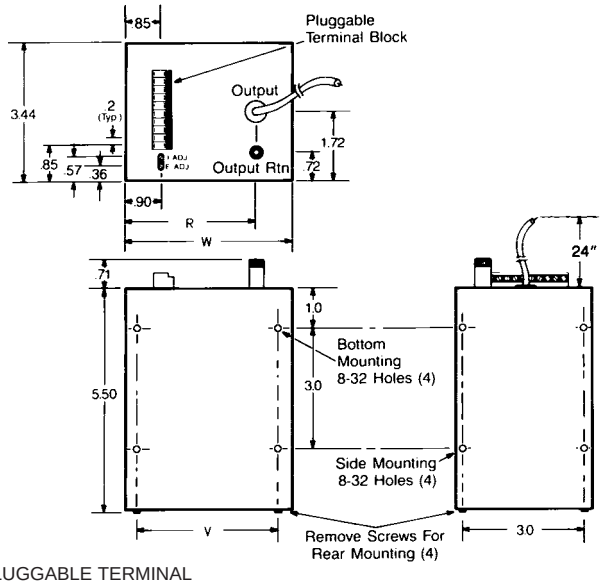
Models with an output of 5000 volts or less can be provided with an MHV connector (and 8´ long detachable output cable with mating MHV connector installed on one end) instead of the flying lead. To order, add suffix letter "T" to the model number and $50.00 to price.



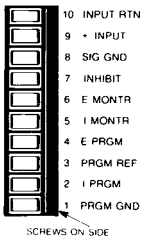
DC-DC MODELS

Output Range kVdc	Output Current mA	Output Monitor Ratio Voltage	Output Monitor Ratio Current mV/mA	($) Price	Model (Positive Output)*	Case Size
0-1	30	1,000:1	100:1	545	P01HD30	HD345
0-1	60	1,000:1	10:1	650	P01HD60	HD355
0-1.5	20	1,000:1	100:1	545	P01.5HD20	HD345
0-1.5	40	1,000:1	100:1	650	P01.5HD40	HD355
0-2	15	1,000:1	100:1	545	P02HD15	HD345
0-2	30	1,000:1	100:1	650	P02HD30	HD355
0-2.5	12	1,000:1	100:1	545	P02.5HD12	HD345
0-2.5	24	1,000:1	100:1	650	P02.5HD24	HD355
0-3.5	8.5	1,000:1	100:1	545	P03.5HD8.5	HD345
0-3.5	17	1,000:1	100:1	650	P03.5HD17	HD355
0-5	6	10,000:1	100:1	610	P05HD6	HD345
0-5	12	10,000:1	100:1	720	P05HD12	HD355
0-7.5	4	10,000:1	100:1	610	P07.5HD4	HD345
0-7.5	8	10,000:1	100:1	720	P07.5HD8	HD355
0-10	3	10,000:1	1,000:1	610	P010HD3	HD345
0-10	6	10,000:1	100:1	720	P010HD6	HD355
0-12	2.5	10,000:1	1,000:1	610	P012HD2.5	HD345
0-12	5	10,000:1	100:1	720	P012HD5	HD355
0-15	2	10,000:1	1,000:1	650	P015HD2	HD345
0-15	4	10,000:1	100:1	760	P015HD4	HD355
0-18	1.6	10,000:1	1,000:1	650	P018HD1.6	HD345
0-18	3.2	10,000:1	1,000:1	760	P018HD3.2	HD355
0-20	1.5	10,000:1	1,000:1	760	P020HD1.5	HD345
0-20	3	10,000:1	1,000:1	870	P020HD3	HD355
0-22	1.3	10,000:1	1,000:1	760	P022HD1.3	HD345
0-22	2.6	10,000:1	1,000:1	870	P022HD2.6	HD355
0-25	1.2	10,000:1	1,000:1	870	P025HD1.2	HD345
0-25	2.4	10,000:1	1,000:1	975	P025HD2.4	HD355
0-30	1	10,000:1	1,000:1	870	P030HD1	HD345
0-30	2	10,000:1	1,000:1	975	P030HD2	HD355

* Positive output is standard. For negative output, change first letter of model number from P to N.



PLUGGABLE TERMINAL BLOCK CONNECTIONS



Case Size	W	V	R	Approx. Weight
HD345	4.13	3.50	3.25	2 lb.
HD355	5.13	4.50	4.25	2 lb. 12 oz.

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DC-DC Converters

Mini Encapsulated - **PC Board mounting**
REGULATED
single & dual tracking outputs

- Shipped Within 3 Days
- One Year Warranty



These versatile DC-DC Converters are ideally suited for powering a wide variety of analog and digital circuitry, such as op amps, logic and microprocessors. They may be mounted directly on a printed circuit board for OEM applications, or installed in a socket for developmental and small quantity requirements. For DC-DC Converters with screw terminals, see pages 76 and 77.

Efficiency is in the order of 65%, and is maintained down to low levels of output current. Input reflected ripple is reduced to less than 1% by means of a standard built-in pi filter, and electrostatic shielding on all six sides minimizes radiated energy. High input/output isolation permits separation of the output from the dc input bus to minimize circuit interaction due to ground loops, and the use of inputs in either polarity.

SPECIFICATIONS

Input Voltage: Nominal voltage ±10%.

Input Reflected Ripple: 1% E_{in} (max.)

Output Regulation:
Line: ±0.02%
Load: ±0.05%

Output Ripple (@ 25 MHz bandwidth)**:**
1 mV rms, 50 mV p-p (5-15V outputs).
1.5 mV rms, 75 mV p-p (18-28V outputs).

Output Voltage Setting: Outputs are factory preset to within ±1% of the nominal output voltage.

T/C terminal: For single output models, the T/C terminal can be used to trim the output more precisely to the nominal voltage rating by connecting an external resistor from the T/C terminal to either the + or– terminal. For dual output models, the T/C terminal is the output common.

Polarity: The output of single output models may be connected in either polarity. Dual output models have a positive/common/negative output terminal configuration.

Transient Response (NL-FL): 50 microseconds.

Overload/Short Circuit Protection: Electronic current limiting with automatic recovery. Models in case size ELC-10 also have thermal protection with automatic reset.

Input/Output Isolation:
Voltage: 500 Vdc
Resistance: 100 megohms
Capacitance: 100 pF

Switching Frequency: 20 kHz minimum.

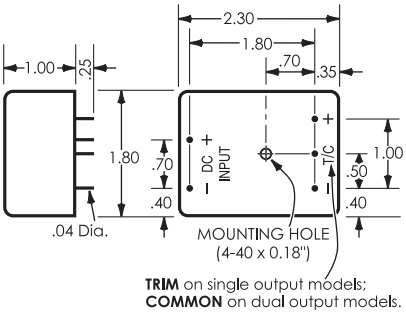
Temperature Coefficient: 0.02%/°C (Typical).

Ambient Operating Temperature: –20 to +71°C.

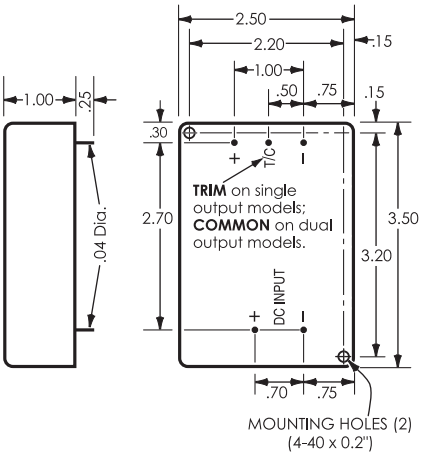
Storage Temperature: –40 to +85°C.

Humidity: 20% to 80% R.H. (non-condensing).

Mounting: May be mounted on printed circuit board or in socket (see page 34).



Case Size ESC-10
Approx. Weight: 5 oz.



Case Size ELC-10
Approx. Weight: 12 oz.

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SINGLE OUTPUT, FOR PC BOARD MOUNTING

Nominal Input Voltage	Nominal Output Voltage	Output Current Amps. at 40°C	55°C	71°C	($) Price	Model	Case Size
5	5	1.25	1.25	1.00	98	5E5E125	ESC-10
5	5	2.50	2.25	2.00	119	5E5E250	ELC-10
5	6	1.00	1.00	.80	98	5E6E100	ESC-10
5	6	2.00	1.80	1.60	119	5E6E200	ELC-10
5	8	.75	.75	.60	98	5E8E75	ESC-10
5	8	1.50	1.35	1.20	119	5E8E150	ELC-10
5	9	.70	.70	.55	98	5E9E70	ESC-10
5	9	1.40	1.25	1.10	119	5E9E140	ELC-10
5	10	.65	.65	.50	98	5E10E65	ESC-10
5	10	1.30	1.15	1.00	119	5E10E130	ELC-10
5	12	.60	.60	.50	98	5E12E60	ESC-10
5	12	1.20	1.10	1.00	119	5E12E120	ELC-10
5	13	.55	.55	.45	98	5E13E55	ESC-10
5	13	1.10	1.00	.90	119	5E13E110	ELC-10
5	15	.50	.50	.40	98	5E15E50	ESC-10
5	15	1.00	.90	.80	119	5E15E100	ELC-10
5	18	.40	.40	.30	98	5E18E40	ESC-10
5	18	.80	.70	.60	119	5E18E80	ELC-10
5	20	.35	.35	.28	98	5E20E35	ESC-10
5	20	.70	.60	.50	119	5E20E70	ELC-10
5	24	.25	.25	.20	98	5E24E25	ESC-10
5	24	.60	.55	.50	119	5E24E60	ELC-10
5	28	.25	.25	.20	98	5E28E25	ESC-10
5	28	.50	.45	.40	119	5E28E50	ELC-10
12	5	1.25	1.25	1.00	98	12E5E125	ESC-10
12	5	2.50	2.25	2.00	119	12E5E250	ELC-10
12	6	1.00	1.00	.80	98	12E6E100	ESC-10
12	6	2.00	1.80	1.60	119	12E6E200	ELC-10
12	8	.75	.75	.60	98	12E8E75	ESC-10
12	8	1.50	1.35	1.20	119	12E8E150	ELC-10
12	9	.70	.70	.55	98	12E9E70	ESC-10
12	9	1.40	1.25	1.10	119	12E9E140	ELC-10
12	10	.65	.65	.50	98	12E10E65	ESC-10
12	10	1.30	1.15	1.00	119	12E10E130	ELC-10
12	12	.60	.60	.50	98	12E12E60	ESC-10
12	12	1.20	1.10	1.00	119	12E12E120	ELC-10
12	13	.55	.55	.45	98	12E13E55	ESC-10
12	13	1.10	1.00	.90	119	12E13E110	ELC-10
12	15	.50	.50	.40	98	12E15E50	ESC-10
12	15	1.00	.90	.80	119	12E15E100	ELC-10
12	18	.40	.40	.30	98	12E18E40	ESC-10
12	18	.80	.70	.60	119	12E18E80	ELC-10
12	20	.35	.35	.28	98	12E20E35	ESC-10
12	20	.70	.60	.50	119	12E20E70	ELC-10
12	24	.25	.25	.20	98	12E24E25	ESC-10
12	24	.60	.55	.50	119	12E24E60	ELC-10
12	28	.25	.25	.20	98	12E28E25	ESC-10
12	28	.50	.45	.40	119	12E28E50	ELC-10
15	5	1.25	1.25	1.00	98	15E5E125	ESC-10
15	5	2.50	2.25	2.00	119	15E5E250	ELC-10
15	6	1.00	1.00	.80	98	15E6E100	ESC-10
15	6	2.00	1.80	1.60	119	15E6E200	ELC-10
15	8	.75	.75	.60	98	15E8E75	ESC-10
15	8	1.50	1.35	1.20	119	15E8E150	ELC-10
15	9	.70	.70	.55	98	15E9E70	ESC-10
15	9	1.40	1.25	1.10	119	15E9E140	ELC-10
15	10	.65	.65	.50	98	15E10E65	ESC-10
15	10	1.30	1.15	1.00	119	15E10E130	ELC-10
15	12	.60	.60	.50	98	15E12E60	ESC-10
15	12	1.20	1.10	1.00	119	15E12E120	ELC-10
15	13	.55	.55	.45	98	15E13E55	ESC-10
15	13	1.10	1.00	.90	119	15E13E110	ELC-10
15	15	.50	.50	.40	98	15E15E50	ESC-10
15	15	1.00	.90	.80	119	15E15E100	ELC-10
15	18	.40	.40	.30	98	15E18E40	ESC-10
15	18	.80	.70	.60	119	15E18E80	ELC-10
15	20	.35	.35	.28	98	15E20E35	ESC-10
15	20	.70	.60	.50	119	15E20E70	ELC-10
15	24	.25	.25	.20	98	15E24E25	ESC-10
15	24	.60	.55	.50	119	15E24E60	ELC-10
15	28	.25	.25	.20	98	15E28E25	ESC-10
15	28	.50	.45	.40	119	15E28E50	ELC-10
24	5	1.25	1.25	1.00	98	24E5E125	ESC-10
24	5	2.50	2.25	2.00	119	24E5E250	ELC-10
24	6	1.00	1.00	.80	98	24E6E100	ESC-10
24	6	2.00	1.80	1.60	119	24E6E200	ELC-10
24	8	.75	.75	.60	98	24E8E75	ESC-10
24	8	1.50	1.35	1.20	119	24E8E150	ELC-10
24	9	.70	.70	.55	98	24E9E70	ESC-10
24	9	1.40	1.25	1.10	119	24E9E140	ELC-10
24	10	.65	.65	.50	98	24E10E65	ESC-10
24	10	1.30	1.15	1.00	119	24E10E130	ELC-10
24	12	.60	.60	.50	98	24E12E60	ESC-10
24	12	1.20	1.10	1.00	119	24E12E120	ELC-10
24	13	.55	.55	.45	98	24E13E55	ESC-10
24	13	1.10	1.00	.90	119	24E13E110	ELC-10
24	15	.50	.50	.40	98	24E15E50	ESC-10
24	15	1.00	.90	.80	119	24E15E100	ELC-10
24	18	.40	.40	.30	98	24E18E40	ESC-10
24	18	.80	.70	.60	119	24E18E80	ELC-10
24	20	.35	.35	.28	98	24E20E35	ESC-10
24	20	.70	.60	.50	119	24E20E70	ELC-10
24	24	.25	.25	.20	98	24E24E25	ESC-10
24	24	.60	.55	.50	119	24E24E60	ELC-10
24	28	.25	.25	.20	98	24E28E25	ESC-10
24	28	.50	.45	.40	119	24E28E50	ELC-10
28	5	1.25	1.25	1.00	98	28E5E125	ESC-10
28	5	2.50	2.25	2.00	119	28E5E250	ELC-10
28	6	1.00	1.00	.80	98	28E6E100	ESC-10
28	6	2.00	1.80	1.60	119	28E6E200	ELC-10
28	8	.75	.75	.60	98	28E8E75	ESC-10
28	8	1.50	1.35	1.20	119	28E8E150	ELC-10
28	9	.70	.70	.55	98	28E9E70	ESC-10
28	9	1.40	1.25	1.10	119	28E9E140	ELC-10
28	10	.65	.65	.50	98	28E10E65	ESC-10
28	10	1.30	1.15	1.00	119	28E10E130	ELC-10
28	12	.60	.60	.50	98	28E12E60	ESC-10
28	12	1.20	1.10	1.00	119	28E12E120	ELC-10
28	13	.55	.55	.45	98	28E13E55	ESC-10
28	13	1.10	1.00	.90	119	28E13E110	ELC-10
28	15	.50	.50	.40	98	28E15E50	ESC-10
28	15	1.00	.90	.80	119	28E15E100	ELC-10
28	18	.40	.40	.30	98	28E18E40	ESC-10
28	18	.80	.70	.60	119	28E18E80	ELC-10
28	20	.35	.35	.28	98	28E20E35	ESC-10
28	20	.70	.60	.50	119	28E20E70	ELC-10
28	24	.25	.25	.20	98	28E24E25	ESC-10
28	24	.60	.55	.50	119	28E24E60	ELC-10
28	28	.25	.25	.20	98	28E28E25	ESC-10
28	28	.50	.45	.40	119	28E28E50	ELC-10
48	5	1.25	1.25	1.00	98	48E5E125	ESC-10
48	6	1.00	1.00	.80	98	48E6E100	ESC-10
48	8	.75	.75	.60	98	48E8E75	ESC-10
48	9	.70	.70	.55	98	48E9E70	ESC-10
48	10	.65	.65	.50	98	48E10E65	ESC-10
48	12	.60	.60	.50	98	48E12E60	ESC-10
48	13	.55	.55	.45	98	48E13E55	ESC-10
48	15	.50	.50	.40	98	48E15E50	ESC-10
48	18	.40	.40	.30	98	48E18E40	ESC-10
48	20	.35	.35	.28	98	48E20E35	ESC-10
48	24	.25	.25	.20	98	48E24E25	ESC-10
48	28	.25	.25	.20	98	48E28E25	ESC-10
120 to 180	See pages 38-39.						

DUAL TRACKING OUTPUTS

Nominal Input Voltage	Nominal Output Voltages	Amps. per Output at 40°C	55°C	71°C	($) Price	Model	Case Size
5	±10	.30	.30	.25	105	5E10D30	ESC-10
5	±10	.60	.55	.50	125	5E10D60	ELC-10
5	±12	.30	.30	.25	105	5E12D30	ESC-10
5	±12	.60	.55	.50	125	5E12D60	ELC-10
5	±15	.25	.25	.25	105	5E15D25	ESC-10
5	±15	.50	.45	.40	125	5E15D50	ELC-10
5	±18	.20	.20	.20	105	5E18D20	ESC-10
5	±18	.40	.35	.30	125	5E18D40	ELC-10
12	±10	.30	.30	.25	105	12E10D30	ESC-10
12	±10	.60	.55	.50	125	12E10D60	ELC-10
12	±12	.30	.30	.25	105	12E12D30	ESC-10
12	±12	.60	.55	.50	125	12E12D60	ELC-10
12	±15	.25	.25	.25	105	12E15D25	ESC-10
12	±15	.50	.45	.40	125	12E15D50	ELC-10
12	±18	.20	.20	.20	105	12E18D20	ESC-10
12	±18	.40	.35	.30	125	12E18D40	ELC-10
15	±10	.30	.30	.25	105	15E10D30	ESC-10
15	±10	.60	.55	.50	125	15E10D60	ELC-10
15	±12	.30	.30	.25	105	15E12D30	ESC-10
15	±12	.60	.55	.50	125	15E12D60	ELC-10
15	±15	.25	.25	.25	105	15E15D25	ESC-10
15	±15	.50	.45	.40	125	15E15D50	ELC-10
15	±18	.20	.20	.20	105	15E18D20	ESC-10
15	±18	.40	.35	.30	125	15E18D40	ELC-10
24	±10	.30	.30	.25	105	24E10D30	ESC-10
24	±10	.60	.55	.50	125	24E10D60	ELC-10
24	±12	.30	.30	.25	105	24E12D30	ESC-10
24	±12	.60	.55	.50	125	24E12D60	ELC-10
24	±15	.25	.25	.25	105	24E15D25	ESC-10
24	±15	.50	.45	.40	125	24E15D50	ELC-10
24	±18	.20	.20	.20	105	24E18D20	ESC-10
24	±18	.40	.35	.30	125	24E18D40	ELC-10
28	±10	.30	.30	.25	105	28E10D30	ESC-10
28	±10	.60	.55	.50	125	28E10D60	ELC-10
28	±12	.30	.30	.25	105	28E12D30	ESC-10
28	±12	.60	.55	.50	125	28E12D60	ELC-10
28	±15	.25	.25	.25	105	28E15D25	ESC-10
28	±15	.50	.45	.40	125	28E15D50	ELC-10
28	±18	.20	.20	.20	105	28E18D20	ESC-10
28	±18	.40	.35	.30	125	28E18D40	ELC-10
48	±10	.30	.30	.25	105	48E10D30	ESC-10
48	±12	.30	.30	.25	105	48E12D30	ESC-10
48	±15	.25	.25	.25	105	48E15D25	ESC-10
48	±18	.20	.20	.20	105	48E18D20	ESC-10

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DC-DC Converters

Mini Encapsulated - **with screw terminals**
REGULATED
single & dual tracking outputs



- Shipped Within 3 Days
- One Year Warranty

These DC-DC Converters have the versatility to be used in a broad range of applications. Threaded mounting holes permit them to be mounted to a chassis, cabinet wall or bracket, or they may be used on a test bench or tabletop. Screw terminals provide easy connection without sockets or soldering.

Input/output isolation prevents ground loops, and permits the use of inputs of either polarity; outputs of single output models may be used in either polarity and floated up to 500 volts above the input. Short circuit and thermal protection, and rugged encapsulated construction, assure years of reliable service.

SPECIFICATIONS

Input Voltage: Nominal voltage ±10%.

Input Reflected Ripple: 1% E_{in} (max.)

Output Ripple (@25 MHz bandwidth)**:**
1 mV rms, 50 mV p-p (5-15V outputs).
1.5 mV rms, 75 mV p-p (18-28V outputs).

Output Voltage Setting: Outputs are factory preset to within ±1% of the nominal output voltage.

T/C terminal: For single output models, the T/C terminal can be used to trim the output more precisely to the nominal voltage rating by connecting an external resistor from the T/C terminal to either the + or– terminal. For dual output models, the T/C terminal is the output common.

Polarity: The output of single output models may be connected in either polarity. Dual output models have a positive/common/negative output terminal configuration.

Transient Response (NL-FL): 50 microseconds.

Overload/Short Circuit Protection: Electronic current limiting with automatic recovery. All models have thermal protection with automatic reset.

Input/Output Isolation:
Voltage: 500 Vdc
Resistance: 100 megohms
Capacitance: 100 pF

Switching Frequency: 20 kHz minimum.

Temperature Coefficient: 0.02%/°C (Typical).

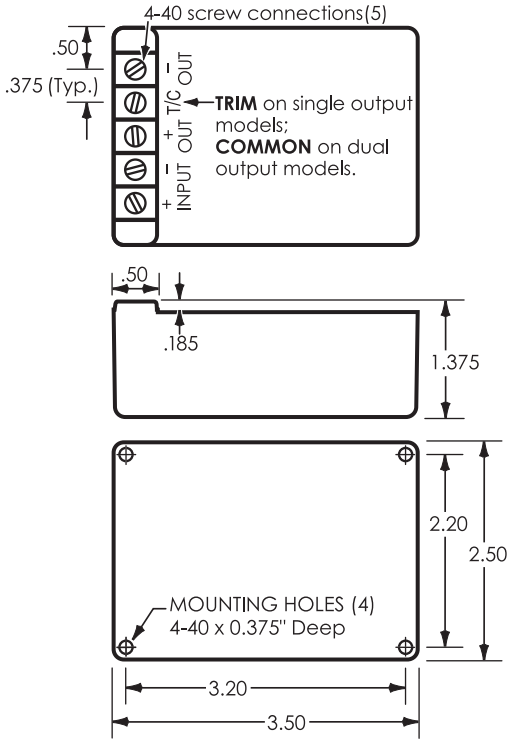
Ambient Operating Temperature: –20 to +71°C.

Storage Temperature: –40 to +85°C.

Humidity: 20% to 80% R.H. (non-condensing).

Case Size: EBC-10.

Mounting: Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket, or they may be used on a test bench or tabletop. When wall-mounting or DIN rail mounting is desired, use accessory Mounting Kits on page 77.

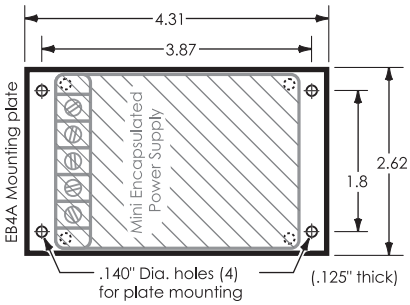


Case Size EBC-10
Approx. Weight: 14 oz.

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ACCESSORY MOUNTING KITS *For use with 'Mini Encapsulated - with Screw Terminals' power supplies.*

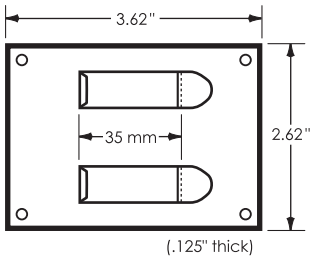
FOR WALL MOUNTING



Use Mounting Kit EB4A to mount from the power supply side of the mounting surface, necessary when the other side of the mounting surface is inaccessible. This kit consists of an aluminum plate and four screws for attaching it to the power supply, effectively adding mounting flanges to any Mini Encapsulated power supply with screw terminals or any Mini DC-DC Converter with screw terminals.

Model EB4A . . . . . $ 8

FOR DIN RAIL MOUNTING



Mounting Kit EB35DIN consists of an aluminum plate, with two DIN clips attached to it, and four screws for attaching the plate to the bottom of any Mini Encapsulated power supply with screw terminals or any Mini DC-DC Converter with screw terminals. The power supply can then be snapped onto a 35mm 'top hat' type of DIN rail.

Model EB35DIN $12

SINGLE OUTPUT, WITH SCREW TERMINALS

Nominal Input Voltage	Nominal Output Voltage	Output Current Amps. at 40°C	55°C	71°C	Regulation Load ±%	Line ±%	($) Price	Model
5	5	2.50	2.25	2.00	.15	.02	129	5EB5E250
5	6	2.00	1.80	1.60	.15	.02	129	5EB6E200
5	8	1.50	1.35	1.20	.10	.02	129	5EB8E150
5	9	1.40	1.25	1.10	.10	.02	129	5EB9E140
5	10	1.30	1.15	1.00	.10	.02	129	5EB10E130
5	12	1.20	1.10	1.00	.05	.02	129	5EB12E120
5	13	1.10	1.00	.90	.05	.02	129	5EB13E110
5	15	1.00	.90	.80	.05	.02	129	5EB15E100
5	18	.80	.70	.60	.05	.02	129	5EB18E80
5	20	.70	.60	.50	.05	.02	129	5EB20E70
5	24	.60	.55	.50	.05	.02	129	5EB24E60
5	28	.50	.45	.40	.05	.02	129	5EB28E50
12	5	2.50	2.25	2.00	.15	.02	129	12EB5E250
12	6	2.00	1.80	1.60	.15	.02	129	12EB6E200
12	8	1.50	1.35	1.20	.10	.02	129	12EB8E150
12	9	1.40	1.25	1.10	.10	.02	129	12EB9E140
12	10	1.30	1.15	1.00	.10	.02	129	12EB10E130
12	12	1.20	1.10	1.00	.05	.02	129	12EB12E120
12	13	1.10	1.00	.90	.05	.02	129	12EB13E110
12	15	1.00	.90	.80	.05	.02	129	12EB15E100
12	18	.80	.70	.60	.05	.02	129	12EB18E80
12	20	.70	.60	.50	.05	.02	129	12EB20E70
12	24	.60	.55	.50	.05	.02	129	12EB24E60
12	28	.50	.45	.40	.05	.02	129	12EB28E50
15	5	2.50	2.25	2.00	.15	.02	129	15EB5E250
15	6	2.00	1.80	1.60	.15	.02	129	15EB6E200
15	8	1.50	1.35	1.20	.10	.02	129	15EB8E150
15	9	1.40	1.25	1.10	.10	.02	129	15EB9E140
15	10	1.30	1.15	1.00	.10	.02	129	15EB10E130
15	12	1.20	1.10	1.00	.05	.02	129	15EB12E120
15	13	1.10	1.00	.90	.05	.02	129	15EB13E110
15	15	1.00	.90	.80	.05	.02	129	15EB15E100
15	18	.80	.70	.60	.05	.02	129	15EB18E80
15	20	.70	.60	.50	.05	.02	129	15EB20E70
15	24	.60	.55	.50	.05	.02	129	15EB24E60
15	28	.50	.45	.40	.05	.02	129	15EB28E50
24	5	2.50	2.25	2.00	.15	.02	129	24EB5E250
24	6	2.00	1.80	1.60	.15	.02	129	24EB6E200
24	8	1.50	1.35	1.20	.10	.02	129	24EB8E150
24	9	1.40	1.25	1.10	.10	.02	129	24EB9E140
24	10	1.30	1.15	1.00	.10	.02	129	24EB10E130
24	12	1.20	1.10	1.00	.05	.02	129	24EB12E120
24	13	1.10	1.00	.90	.05	.02	129	24EB13E110
24	15	1.00	.90	.80	.05	.02	129	24EB15E100
24	18	.80	.70	.60	.05	.02	129	24EB18E80
24	20	.70	.60	.50	.05	.02	129	24EB20E70
24	24	.60	.55	.50	.05	.02	129	24EB24E60
24	28	.50	.45	.40	.05	.02	129	24EB28E50
28	5	2.50	2.25	2.00	.15	.02	129	28EB5E250
28	6	2.00	1.80	1.60	.15	.02	129	28EB6E200
28	8	1.50	1.35	1.20	.10	.02	129	28EB8E150
28	9	1.40	1.25	1.10	.10	.02	129	28EB9E140
28	10	1.30	1.15	1.00	.10	.02	129	28EB10E130
28	12	1.20	1.10	1.00	.05	.02	129	28EB12E120
28	13	1.10	1.00	.90	.05	.02	129	28EB13E110
28	15	1.00	.90	.80	.05	.02	129	28EB15E100
28	18	.80	.70	.60	.05	.02	129	28EB18E80
28	20	.70	.60	.50	.05	.02	129	28EB20E70
28	24	.60	.55	.50	.05	.02	129	28EB24E60
28	28	.50	.45	.40	.05	.02	129	28EB28E50
120 to 180	See pages 38-39.							

DUAL TRACKING OUTPUTS

Nominal Input Voltage	Nominal Output Voltages	Amps. per Output at 40°C	55°C	71°C	Regulation Load ±%	Line ±%	($) Price	Model
5	±10	.60	.55	.50	.05	.02	135	5EB10D60
5	±12	.60	.55	.50	.05	.02	135	5EB12D60
5	±15	.50	.45	.40	.05	.02	135	5EB15D50
5	±18	.40	.35	.30	.05	.02	135	5EB18D40
12	±10	.60	.55	.50	.05	.02	135	12EB10D60
12	±12	.60	.55	.50	.05	.02	135	12EB12D60
12	±15	.50	.45	.40	.05	.02	135	12EB15D50
12	±18	.40	.35	.30	.05	.02	135	12EB18D40
15	±10	.60	.55	.50	.05	.02	135	15EB10D60
15	±12	.60	.55	.50	.05	.02	135	15EB12D60
15	±15	.50	.45	.40	.05	.02	135	15EB15D50
15	±18	.40	.35	.30	.05	.02	135	15EB18D40
24	±10	.60	.55	.50	.05	.02	135	24EB10D60
24	±12	.60	.55	.50	.05	.02	135	24EB12D60
24	±15	.50	.45	.40	.05	.02	135	24EB15D50
24	±18	.40	.35	.30	.05	.02	135	24EB18D40
28	±10	.60	.55	.50	.05	.02	135	28EB10D60
28	±12	.60	.55	.50	.05	.02	135	28EB12D60
28	±15	.50	.45	.40	.05	.02	135	28EB15D50
28	±18	.40	.35	.30	.05	.02	135	28EB18D40

Narrow Profile

DC-DC Converters (to 288 watts)

REGULATED
wide input ranges
single output

- Shipped Within 3 Days
- Five Year Warranty



These state-of-the-art DC-DC converters combine excellent regulation and ripple specifications with broad input ranges. They are available in a large selection of output voltages and current ratings. Accessory mounting kits permit easy installation on a vertical panel, wall or on a DIN rail.

STANDARD FEATURES

- Tight regulation, low ripple
- Extensive filtering and shielding
- Output status indicator
- Input/output isolation exceeds 2828Vdc
- Extruded aluminum case

SPECIFICATIONS

Nominal Input	Operating Input Voltage Range
24 Vdc	18-36 Vdc (or 18-75 Vdc; see table)
48 Vdc	36-75 Vdc (or 18-75 Vdc; see table)
125 Vdc	110-350 Vdc (see table)
250 Vdc	110-350 Vdc (see table)

Input Reverse Polarity Protection: Internal shunt diode (external fuse required).

Startup Time: 800 mS typical.

Regulation:
Line: ±0.05%
Load: ±0.05%

Output Voltage Remote Adjustment: The output voltage may be controlled by means of an external 1K potentiometer.

Output Indicator (DC out): Green LED.

Polarity: Output is floating and may be used in either polarity.

Drift: ±0.1% typical over 8 hours, after 30 minute warmup.

Temperature Coefficient: ±0.02%/°C (Typical).

Transient Response: 300 µS to return to ±1% of output setting. Maximum of ±3% output excursion following a load step change from 50% to 100%.

Remote Sensing: Compensates up to 0.5 volt drop per output line, within the limits of the output voltage adjustment range.

Overload/Short Circuit Protection: Current limiting with automatic recovery.
Overvoltage Protection:
Case sizes DN6A, DN6B: automatic reset.
Case sizes DN8, DN8A: latches power supply OFF, reset by momentarily removing DC input power.

Output Inhibit (DN8 and DN8A case sizes only): Applying between +3 and +25 Vdc (relative to the −Out terminal) to the inhibit terminal will disable the supply.

EMI: Designed to meet FCC Part 15 and EN55022, Class A.

Thermal Protection:
Case sizes DN8, DN8A, DN6A: thermostat, self-resetting.
Case size DN6B: inherently protected.

Efficiency: (Typical, at nominal input voltage, with full load.) 65 to 80%

Ambient Operating Temperature: 0 to +71°C.

Storage Temperature: −40 to +85°C.

Cooling: Case sizes DN8, DN8A, DN6A: forced-air cooled; air enters rear of power supply and exits from top. Case size DN6B: convection cooled.

Switching Frequency: 100 kHz (Typical).

Dielectric Withstand Voltage:

	inputs to 75 Vdc	110-350 Vdc input	Isolation
Input to output:	2828 Vdc	4242 Vdc	707 Vdc
Input to case:	2828 Vdc	2121 Vdc	707 Vdc
Output to case:	750 Vdc	750 Vdc	424 Vdc

Drawings: See page 80.

Mounting: Threaded mounting holes permit mounting to a chassis, cabinet wall or bracket. To mount from the power supply side of the mounting surface or for DIN rail mounting, see accessory Mounting Kits on page 91.

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Narrow Profile DC-DC CONVERTERS

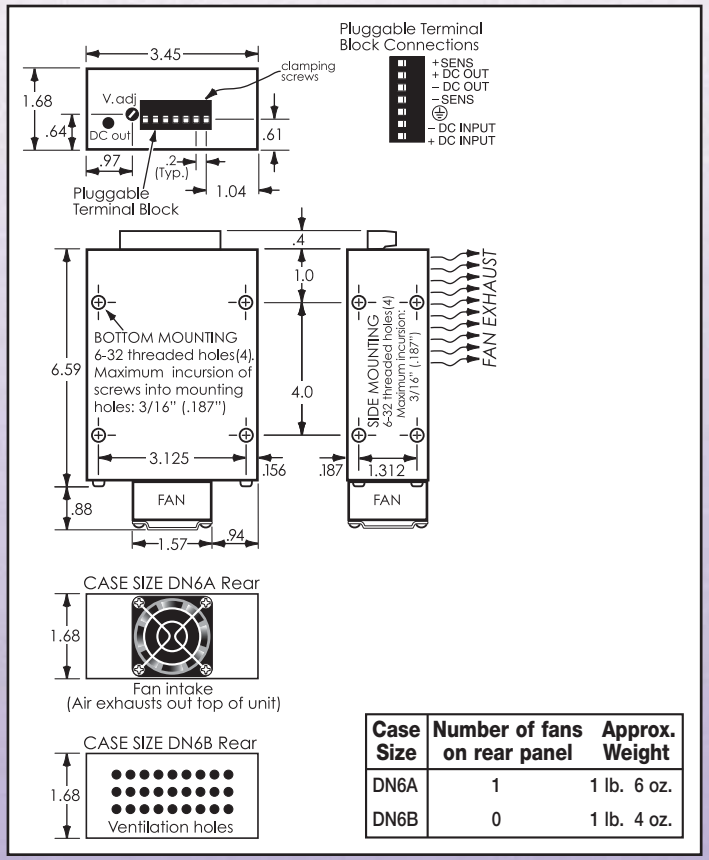
Nominal Output Voltage	Adjust Range ± V	Output Current Amps. at 40°C	Output Current Amps. at 71°C	Ripple mV (@ 25 MHz BW) RMS	Ripple mV (@ 25 MHz BW) P-P	Case Size	18 to 36 Vdc Input Price ($)	18 to 36 Vdc Input Model	36 to 75 Vdc Input Price ($)	36 to 75 Vdc Input Model	18 to 75 Vdc Input Price ($)	18 to 75 Vdc Input Model	110 to 350 Vdc Input * Price ($)	110 to 350 Vdc Input * Model
3.3	.5	10	7	10	50	DN6B	185	24C3.3FT1000	185	48C3.3FT1000	-----	----------	-----	----------
3.3	.5	15	10.5	10	50	DN6A	225	24C3.3FT1500	225	48C3.3FT1500	-----	----------	-----	----------
3.3	.5	18.5	12.9	10	50	DN8A	-----	---------->	-----	---------->	275	18-75C3.3NT1850	275	230C3.3NT1850
3.3	.5	25	17.5	10	50	DN8	-----	----------	-----	----------	-----	----------	350	230C3.3NT2500
5	.5	10	7	10	50	DN6B	185	24C5FT1000	185	48C5FT1000	-----	----------	-----	*
5	.5	15	10.5	10	50	DN6A	225	24C5FT1500	225	48C5FT1500	-----	----------	-----	----------
5	.5	18.5	12.9	10	50	DN8A	-----	---------->	-----	---------->	275	18-75C5NT1850	275	230C5NT1850
5	.5	25	17.5	10	50	DN8	-----	----------	-----	----------	-----	----------	350	230C5NT2500
6	.5	8.5	6	10	50	DN6B	185	24C6FT850	185	48C6FT850	-----	----------	-----	*
6	.5	12.5	8.6	10	50	DN6A	225	24C6FT1250	225	48C6FT1250	-----	----------	-----	----------
6	.5	15.4	10.7	10	50	DN8A	-----	---------->	-----	---------->	275	18-75C6NT1540	275	230C6NT1540
6	.5	24	16.8	10	50	DN8	-----	----------	-----	----------	-----	----------	350	230C6NT2400
7	.5	7	4.9	10	50	DN6B	185	24C7FT700	185	48C7FT700	-----	----------	-----	*
7	.5	10.6	7.4	10	50	DN6A	225	24C7FT1060	225	48C7FT1060	-----	----------	-----	----------
7	.5	15	10.5	10	50	DN8A	-----	---------->	-----	---------->	275	18-75C7NT1500	275	230C7NT1500
7	.5	23	16.1	10	50	DN8	-----	----------	-----	----------	-----	----------	350	230C7NT2300
8	.5	6	4.2	15	100	DN6B	185	24C8FT600	185	48C8FT600	-----	----------	-----	*
8	.5	9.4	6.6	15	100	DN6A	225	24C8FT940	225	48C8FT940	-----	----------	-----	----------
8	.5	14.7	10.3	15	100	DN8A	-----	---------->	-----	---------->	275	18-75C8NT1470	275	230C8NT1470
8	.5	23	16.1	15	100	DN8	-----	----------	-----	----------	-----	----------	350	230C8NT2300
9	.5	5.5	3.8	15	100	DN6B	185	24C9FT550	185	48C9FT550	-----	----------	-----	*
9	.5	9.3	6.5	15	100	DN6A	225	24C9FT930	225	48C9FT930	-----	----------	-----	----------
9	.5	14.4	10	15	100	DN8A	-----	---------->	-----	---------->	275	18-75C9NT1440	275	230C9NT1440
9	.5	23	16.1	15	100	DN8	-----	----------	-----	----------	-----	----------	350	230C9NT2300
10	.5	5	3.5	15	100	DN6B	185	24C10FT500	185	48C10FT500	-----	----------	-----	*
10	.5	9.2	6.4	15	100	DN6A	225	24C10FT920	225	48C10FT920	-----	----------	-----	----------
10	.5	14.1	9.8	15	100	DN8A	-----	---------->	-----	---------->	275	18-75C10NT1410	275	230C10NT1410
10	.5	22	15.4	15	100	DN8	-----	----------	-----	----------	-----	----------	350	230C10NT2200
12	.5	4.5	3.1	15	100	DN6B	185	24C12FT450	185	48C12FT450	-----	----------	-----	*
12	.5	9.1	6.3	15	100	DN6A	225	24C12FT910	225	48C12FT910	-----	----------	-----	----------
12	.5	13.7	9.6	15	100	DN8A	-----	---------->	-----	---------->	275	18-75C12NT1370	275	230C12NT1370
12	.5	22	15.4	15	100	DN8	-----	----------	-----	----------	-----	----------	350	230C12NT2200
13	.5	4.3	3	15	100	DN6B	185	24C13FT430	185	48C13FT430	-----	----------	-----	*
13	.5	8.1	5.6	15	100	DN6A	225	24C13FT810	225	48C13FT810	-----	----------	-----	----------
13	.5	12.3	8.6	15	100	DN8A	-----	---------->	-----	---------->	275	18-75C13NT1230	275	230C13NT1230
13	.5	20	14	15	100	DN8	-----	----------	-----	----------	-----	----------	350	230C13NT2000
14	.5	4.2	3	15	100	DN6B	185	24C14FT420	185	48C14FT420	-----	----------	-----	*
14	.5	7.7	5.4	15	100	DN6A	225	24C14FT770	225	48C14FT770	-----	----------	-----	----------
14	.5	11.7	8.2	15	100	DN8A	-----	---------->	-----	---------->	275	18-75C14NT1170	275	230C14NT1170
14	.5	19	13.3	15	100	DN8	-----	----------	-----	----------	-----	----------	350	230C14NT1900
15	.5	4	2.8	15	100	DN6B	185	24C15FT400	185	48C15FT400	-----	----------	-----	*
15	.5	7.4	5.2	15	100	DN6A	225	24C15FT740	225	48C15FT740	-----	----------	-----	----------
15	.5	11.1	7.8	15	100	DN8A	-----	---------->	-----	---------->	275	18-75C15NT1110	275	230C15NT1110
15	.5	18	12.6	15	100	DN8	-----	----------	-----	----------	-----	----------	350	230C15NT1800
18	.5	3.3	2.3	15	100	DN6B	185	24C18FT330	185	48C18FT330	-----	----------	-----	*
18	.5	6	4.2	15	100	DN6A	225	24C18FT600	225	48C18FT600	-----	----------	-----	----------
18	.5	9.2	6.4	15	100	DN8A	-----	---------->	-----	---------->	275	18-75C18NT920	275	230C18NT920
18	.5	15	10.5	15	100	DN8	-----	----------	-----	----------	-----	----------	350	230C18NT1500
20	.5	3	2.1	15	100	DN6B	185	24C20FT300	185	48C20FT300	-----	----------	-----	*
20	.5	5.6	3.9	15	100	DN6A	225	24C20FT560	225	48C20FT560	-----	----------	-----	----------
20	.5	8.6	6	15	100	DN8A	-----	---------->	-----	---------->	275	18-75C20NT860	275	230C20NT860
20	.5	14	9.8	15	100	DN8	-----	----------	-----	----------	-----	----------	350	230C20NT1400
24	.5	2.5	1.8	15	100	DN6B	185	24C24FT250	185	48C24FT250	-----	----------	-----	*
24	.5	5	3.5	15	100	DN6A	225	24C24FT500	225	48C24FT500	-----	----------	-----	----------
24	.5	7.5	5.3	15	100	DN8A	-----	---------->	-----	---------->	275	18-75C24NT750	275	230C24NT750
24	.5	12	8.4	15	100	DN8	-----	----------	-----	----------	-----	----------	350	230C24NT1200
25	.5	2.4	1.6	15	100	DN6B	185	24C25FT240	185	48C25FT240	-----	----------	-----	*
25	.5	4.8	3.3	15	100	DN6A	225	24C25FT480	225	48C25FT480	-----	----------	-----	----------
25	.5	7.2	5	15	100	DN8A	-----	---------->	-----	---------->	275	18-75C25NT720	275	230C25NT720
25	.5	11.2	7.8	15	100	DN8	-----	----------	-----	----------	-----	----------	350	230C25NT1120
28	.5	2.1	1.5	15	100	DN6B	185	24C28FT210	185	48C28FT210	-----	----------	-----	*
28	.5	4.2	2.9	15	100	DN6A	225	24C28FT420	225	48C28FT420	-----	----------	-----	----------
28	.5	6.2	4.3	15	100	DN8A	-----	---------->	-----	---------->	275	18-75C28NT620	275	230C28NT620
28	.5	10	7	15	100	DN8	-----	----------	-----	----------	-----	----------	350	230C28NT1000
30	.5	2	1.4	25	150	DN6B	185	24C30FT200	185	48C30FT200	-----	----------	-----	*
30	.5	4	2.8	25	150	DN6A	225	24C30FT400	225	48C30FT400	-----	----------	-----	----------
30	.5	5.6	3.9	25	150	DN8A	-----	---------->	-----	---------->	275	18-75C30NT560	275	230C30NT560
30	.5	9	6.3	25	150	DN8	-----	----------	-----	----------	-----	----------	350	230C30NT900
32	1	1.9	1.3	25	150	DN6B	185	24C32FT190	185	48C32FT190	-----	----------	-----	*
32	1	3.7	2.5	25	150	DN6A	225	24C32FT370	225	48C32FT370	-----	----------	-----	----------
32	1	5.4	3.7	25	150	DN8A	-----	---------->	-----	---------->	275	18-75C32NT540	275	230C32NT540
32	1	8.6	6	25	150	DN8	-----	----------	-----	----------	-----	----------	350	230C32NT860
36	1	1.7	1.2	25	150	DN6B	185	24C36FT170	185	48C36FT170	-----	----------	-----	*
36	1	3.3	2.3	25	150	DN6A	225	24C36FT330	225	48C36FT330	-----	----------	-----	----------
36	1	5	3.5	25	150	DN8A	-----	---------->	-----	---------->	275	18-75C36NT500	275	230C36NT500
36	1	8	5.6	25	150	DN8	-----	----------	-----	----------	-----	----------	350	230C36NT800
40	1	1.5	1	25	150	DN6B	185	24C40FT150	185	48C40FT150	-----	----------	-----	*
40	1	3	2.1	25	150	DN6A	225	24C40FT300	225	48C40FT300	-----	----------	-----	----------
40	1	4.3	3	25	150	DN8A	-----	---------->	-----	---------->	275	18-75C40NT430	275	230C40NT430
40	1	7	4.9	25	150	DN8	-----	----------	-----	----------	-----	----------	350	230C40NT700
48	1	1.2	.8	25	150	DN6B	185	24C48FT120	185	48C48FT120	-----	----------	-----	*
48	1	2.5	1.7	25	150	DN6A	225	24C48FT250	225	48C48FT250	-----	----------	-----	----------
48	1	3.7	2.6	25	150	DN8A	-----	---------->	-----	---------->	275	18-75C48NT370	275	230C48NT370
48	1	6	4.2	25	150	DN8	-----	----------	-----	----------	-----	----------	350	230C48NT600
50 to 125	See next page!													

* See pages 38-39 for information on Mini Switching Power Supplies that will operate on a 120-180 Vdc input and provide 30 and 50 watt DC outputs.

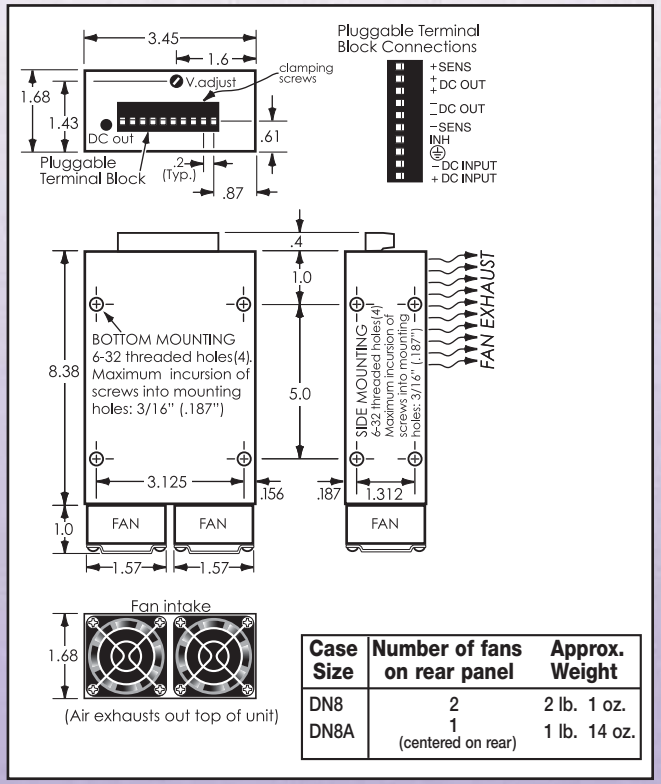
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Narrow Profile DC-DC CONVERTERS (continued)

Nominal Output Voltage	Adjust Range ± V	Output Current Amps. at 40°C	Output Current Amps. at 71°C	Ripple mV (@ 25 MHz BW) RMS	Ripple mV (@ 25 MHz BW) P-P	Case Size	18 to 36 Vdc Input Price ($)	18 to 36 Vdc Input Model	36 to 75 Vdc Input Price ($)	36 to 75 Vdc Input Model	18 to 75 Vdc Input Price ($)	18 to 75 Vdc Input Model	110 to 350 Vdc Input Price ($)	110 to 350 Vdc Input Model
50	1	3.3	2.3	50	150	DN8A	-----	----------	-----	----------	-----	----------	275	230C50NT330
50	1	5	3.5	50	150	DN8	-----	----------	-----	----------	-----	----------	350	230C50NT500
55	1	3	2.1	50	150	DN8A	-----	----------	-----	----------	-----	----------	275	230C55NT300
55	1	4.5	3.2	50	150	DN8	-----	----------	-----	----------	-----	----------	350	230C55NT450
60	1	2.8	1.9	50	150	DN8A	-----	----------	-----	----------	-----	----------	275	230C60NT280
60	1	4.2	2.9	50	150	DN8	-----	----------	-----	----------	-----	----------	350	230C60NT420
70	1	2.4	1.7	67	200	DN8A	-----	----------	-----	----------	-----	----------	275	230C70NT240
70	1	3.6	2.5	67	200	DN8	-----	----------	-----	----------	-----	----------	350	230C70NT360
75	1	2.2	1.5	67	200	DN8A	-----	----------	-----	----------	-----	----------	275	230C75NT220
75	1	3.3	2.3	67	200	DN8	-----	----------	-----	----------	-----	----------	350	230C75NT330
80	1	2.1	1.4	67	200	DN8A	-----	----------	-----	----------	-----	----------	275	230C80NT210
80	1	3.1	2.2	67	200	DN8	-----	----------	-----	----------	-----	----------	350	230C80NT310
90	1	1.8	1.3	100	300	DN8A	-----	----------	-----	----------	-----	----------	275	230C90NT180
90	1	2.8	1.9	100	300	DN8	-----	----------	-----	----------	-----	----------	350	230C90NT280
100	1	1.7	1.2	150	450	DN8A	-----	----------	-----	----------	-----	----------	275	230C100NT170
100	1	2.5	1.8	150	450	DN8	-----	----------	-----	----------	-----	----------	350	230C100NT250
110	1	1.5	1.1	150	450	DN8A	-----	----------	-----	----------	-----	----------	275	230C110NT150
110	1	2.3	1.6	150	450	DN8	-----	----------	-----	----------	-----	----------	350	230C110NT230
120	1	1.4	1	150	450	DN8A	-----	----------	-----	----------	-----	----------	275	230C120NT140
120	1	2.1	1.5	150	450	DN8	-----	----------	-----	----------	-----	----------	350	230C120NT210
125	1	1.3	0.9	150	450	DN8A	-----	----------	-----	----------	-----	----------	275	230C125NT130
125	1	2	1.4	150	450	DN8	-----	----------	-----	----------	-----	----------	350	230C125NT200



Case Size	Number of fans on rear panel	Approx. Weight
DN6A	1	1 lb. 6 oz.
DN6B	0	1 lb. 4 oz.



Case Size	Number of fans on rear panel	Approx. Weight
DN8	2	2 lb. 1 oz.
DN8A	1 (centered on rear)	1 lb. 14 oz.

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MIL TESTED and EXTENDED TEMP RANGE

(for Plug-in models on pages 84-87)

SHIPPED WITHIN 3 DAYS
ALL MODELS U.L. RECOGNIZED

Ruggedized construction and capability for operation through an extended ambient temperature range of –20 to +71°C (without derating) are provided by Acopian MIL-option supplies. In all other respects they are identical to our standard Plug-in power supplies.

HOW TO ORDER:

Add prefix "MIL-" to standard model number and $15.00 to price of single output models; $30.00 to price of dual output models. Example: Model 6J200 becomes MIL-6J200. Price becomes $175.00 plus $15.00; or $190.00 total.

MIL-option equivalents to all the models included on pages 84 through 87, except those housed in case size HS, have been tested to these specifications:

ALTITUDE: MIL-STD-810B, Method 500, Procedure II.

VIBRATION: MIL-STD-810B, Method 514, Procedure I, Curve D.

SHOCK: MIL-STD-810B, Method 516, Procedure I.

FUNGUS: (additional $25.00/output charge applies.) MIL-STD-810B, Method 508, Procedure I.

CONDUCTED EMI: MIL-I-6181D, Paragraph 4.3.1., Figure II.

RADIATED EMI: MIL-I-6181D, Paragraph 4.3.2.

SUSCEPTIBILITY TO CONDUCTED AND RADIATED EMI: MIL-I-6181D, Paragraph 4.3.4.

HIGH TEMPERATURE: MIL-STD-810B, Method 501, Procedure I.

LOW TEMPERATURE: MIL-E-5272C, Paragraph 4.2.2, Procedure II.

HUMIDITY: MIL-STD-810B, Method 507, Procedure I.

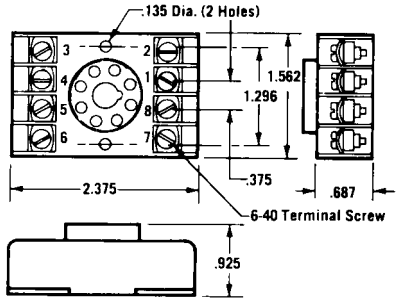
SALT FOG: MIL-STD-810B, Method 509, Procedure I.

ACCESSORY SOCKETS

(for Plug-in models on pages 82-88)

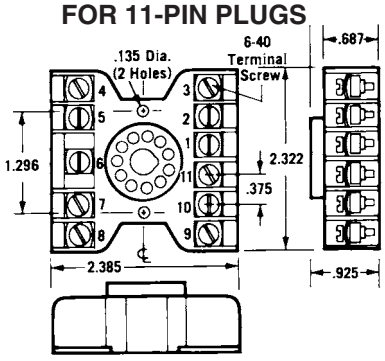
RETMA-numbered screw-type terminals simplify wiring and permit the use of wire terminals or bare wire, 12 to 20 gauge. Rated at 300 volts RMS, 10 Amp.

FOR 8-PIN PLUGS



Model SL608..... $10

FOR 11-PIN PLUGS



Model SL611..... $15

Acopian

Plug-in

UNREGULATED

AC-DC

single output & wide adjust output



- Shipped Within 3 Days
- U.L. Recognized
- Five Year Warranty

To meet the need for unregulated DC power at low cost, Acopian offers a broad line of both fixed and fully adjustable Plug-in power modules with output voltages to 950 volts.

There is no need to use tiedown hardware unless it is mounted in other than an upright position, or where shock and vibration will be encountered.

STANDARD FEATURES

- Capacitive filtering
- Fused input
- May be used in series or parallel
- No derating or heat sinking required
- Completely serviceable

SPECIFICATIONS

Input Voltage: 0-125 VAC, 50-400 Hz, single phase.

Output Voltage Adjustment: Adjustable voltage models are provided with a built-in continuously adjustable autotransformer.

Load Regulation: The nominal output voltages of fixed output models, and the maximum rated output voltages for models with adjustable outputs, are based on 115 VAC input with approximately one-half load. At no load, they will increase by approximately 10%. At full load, they will be reduced by approximately 10%.

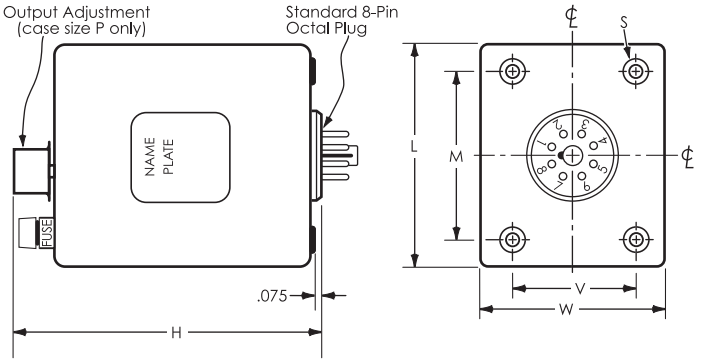
Line Regulation: Output voltage change due to line change directly proportional to input change.

Polarity: Output is floating; either positive or negative terminal may be grounded.

Ambient Operating Temperature: –10 to +65°C. No derating required.

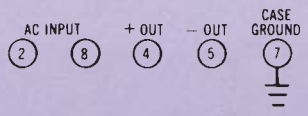
Storage Temperature: –55 to +85°C.

Installation: Plugs into standard 8-pin octal socket (see page 81). Four 6-32 mounting holes (on case sizes G and K) or four 10-32 mounting studs (on case sizes Q and P) are provided in the base for fastening the module when used in other than the upright position, or if extreme vibration will be encountered.



Case Size	L	W	H	M	V	S	Approx. Weight
G	3.40	3.28	5.12	2.625	2.625	Four 6-32 x .25" deep mounting holes	2 lb. 8 oz.
K	4.15	3.33	5.21	2.750	2.562	Four 6-32 x .25" deep mounting holes	4 lb. 4 oz.
Q	4.15	3.33	7.12	2.750	2.562	Four 10-32 x 9/16" long mounting studs	7 lb.
P	4.15	3.33	7.25	2.750	2.562	Four 10-32 x 9/16" long mounting studs	5 lb.

PIN CONNECTIONS:



OPTIONS

230 Volt Input: Provision for inputs of 0-250 VAC, 50-400 Hz, replacing the standard of 0-125 VAC input voltage range, is available on single output models. To order, add suffix "-230" to model number and $25.00 to price. The "-230" option requires two additional days.

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SINGLE OUTPUT

Nominal Output Voltage	Output Current Amps.	Ripple Volts RMS	($) Price	Model	Case Size
7	1.0	.8	$115	7U100	G
13	.600	.5	$115	13U60	G
13	3.0	1.5	$150	13U300	K
14	1.0	.7	$115	14U100	G
16	1.0	.7	$115	16U100	G
18	1.0	.7	$115	18U100	G
20	3.0	2.3	$150	20UP300	K
24	1.0	1.7	$115	24U100	G
24	3.0	2.2	$150	24UP300	K
28	1.0	1.7	$115	28U100	G
28	3.0	2.7	$150	28UP300	K
32	.400	.6	$115	32U40	G
41	.400	.6	$115	41U40	G
45	1.0	1.6	$125	45UP100	G
48	.400	.6	$120	48U40	G
50	1.0	1.6	$125	50UP100	G
52	.400	.6	$120	52U40	G
55	.250	.4	$120	55U25	G
80	.300	1	$125	80UP30	G
90	.300	2.2	$135	90UP30	G
100	.200	1	$135	100UP20	G
110	.200	1	$135	110UP20	G
120	.200	1	$135	120UP20	G
140	.200	2	$135	140UP20	G
150	.200	2	$135	150UP20	G
165	.200	2	$135	165UP20	G
170	.200	2	$140	170UP20	G
180	.200	2	$140	180UP20	G
200	.200	2	$140	200UP20	G
250	.200	4	$140	250UP20	G
275	.100	3	$135	275UP10	G
340	.100	3	$135	340UP10	G
360	.100	3	$135	360UP10	G
370	.100	3	$135	370UP10	G
420	.100	6.7	$135	420UP10	G
475	.020	3.1	$125	475U02	G
580*	.020	3.1	$125	580U02	G
750*	.020	3.1	$135	750U02	G
900*	.020	5	$140	900U02	G

*Not U.L. recognized when this catalog was published.

SINGLE OUTPUT - for relays

Nominal Output Voltage	Output Current Amps.	Output Voltage N/L-F/L	Ripple Volts RMS	($) Price	Model	Case Size
6	2.0	7.7 to 4.8	2.0	$115	US6	G
6	5.0	7.6 to 5.0	2.5	$150	UP6	K
12	1.5	14.9 to 10.9	2.5	$115	US12	G
12	5.0	14.8 to 10.0	2.5	$150	UP12	K
24	1.5	26.2 to 20.2	2.5	$115	US24	G
24	3.5	26.0 to 21.0	2.0	$150	UP24	K
24	5.0	26.6 to 20.0	3.2	$160	U24	Q
28	1.0	30.6 to 25.5	2.0	$120	US28	G
28	3.0	30.8 to 26.0	2.0	$150	UP28	K
28	5.0	31.9 to 23.6	3.4	$160	U28	Q
48	0.5	54.0 to 42.0	1.3	$120	US48	G

WIDE ADJUST OUTPUT

Output Voltage Range	Output Current Amps.	Ripple Volts RMS	($) Price	Model	Case Size
0-14	1.0	1	$270	14UA100	P
0-54	1.0	1.6	$270	54UA100	P
0-95	.300	2.2	$270	95UA30	P
0-125	.200	1.5	$270	125UA20	P
0-220	.200	2	$270	220UA20	P
0-260	.200	4	$270	260UA20	P
0-370	.100	3	$270	370UA10	P
0-450	.100	6.7	$270	450UA10	P
0-500	.020	3.1	$270	500UA02	P
0-800*	.020	3.1	$270	800UA02	P
0-950*	.020	5	$270	950UA02	P

*Not U.L. recognized when this catalog was published.

(See page 57 for other unregulated wide adjust output power supplies.)

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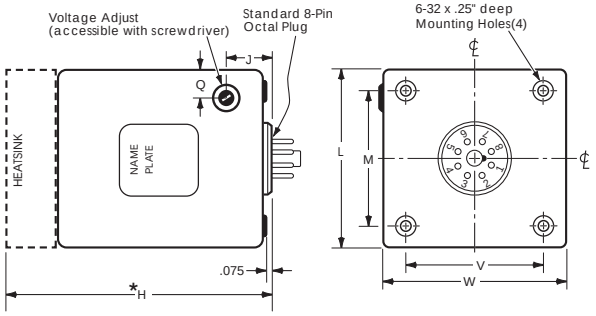
Plug-in
SINGLE OUTPUT & WIDE ADJUST OUTPUT

LINEAR REGULATED
AC-DC

- Shipped Within 3 Days
- All Models U.L. Recognized
- Five Year Warranty



An Acopian Plug-in power module can be installed in a matter of seconds. Simply plug it into a standard octal socket. (Threaded mounting holes are provided in the base for fastening the module when used in other than the upright position, or if subject to extreme vibration.) To replace a module - for example, where added circuitry calls for a higher current rating - just unplug the old, plug in the new. And as a result of years of product refinement, your Acopian Plug-in provides the highest reliability of any available series-regulated power supply.



*H dimension includes HEATSINK on BS, US, WS, and HS case sizes.

Case Size	L	W	H*	M	V	J	Q	Approx. Weight
AS	3.40	3.28	4.67	2.625	2.625	1.00	.66	2 lb. 8 oz.
BS	3.40	3.28	5.33	2.625	2.625	1.00	.66	2 lb. 14 oz.
TS	3.33	4.15	4.85	2.562	2.750	1.12	.62	3 lb. 6 oz.
US	3.33	4.15	5.53	2.562	2.750	1.12	.62	3 lb. 8 oz.
WS	3.40	5.02	5.53	2.562	3.562	1.12	.62	4 lb. 14 oz.
HS	3.40	5.02	6.65	2.562	3.562	1.12	.62	5 lb.

STANDARD FEATURES

- May be used in series
- Delivers current surges without damage - to protect against prolonged overload and shorts, use of an input fuse is recommended
- No derating or additional heat sinking required
- Completely serviceable
- Lightweight

SPECIFICATIONS

Input Voltage: 105-125 VAC, 50-400 Hz, single phase.

Output Specifications: See table.

Polarity: Output floating; either positive or negative terminal may be grounded or floated up to 300 volts above ground.

Temperature Coefficient: 0.02%/°C (Typical).

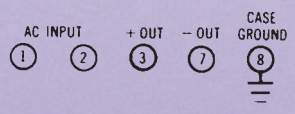
Ambient Operating Temperature: –10 to +65°C.
No derating required.

MIL Tested and Extended Temperature Range:
See page 81.

Storage Temperature: –55 to +85°C.

Installation: Plugs into standard 8-pin octal socket (see page 81). Four mounting holes (6-32) are provided in the base for fastening the module when used in other than the upright position, or if extreme vibration will be encountered.

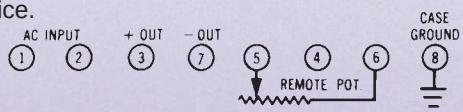
PIN CONNECTIONS:
Standard model.



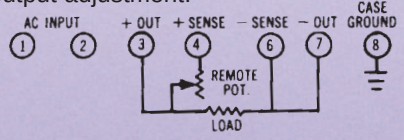
OPTIONS

Solder Terminals: All models can be furnished with solder terminals instead of the octal type plug. Contact factory or see web site for detailed information.

Remote Output Adjustment: All models have a local voltage adjustment. When provision for remote (external) adjustment is also desired, add prefix “E” to model number. Example: Model 12J100 becomes Model E12J100.
No increase in price.



Remote Sensing: Provision for remote sensing of the output voltage to compensate for drops in the load lines can be furnished at an additional charge of $10.00 per unit. Add prefix “R” to model number when ordering. “R” power supplies have a local voltage adjustment and provision for remote (external) output adjustment.



230 Volt Input: All models can be alternately furnished for operation on inputs of 210 to 250 VAC, 50-400 Hz. Add suffix “–230” to model number and $25.00 to price. The “–230” option requires two additional days.

Overvoltage Protection: An internal preset overvoltage protector is available. To order, add prefix “V” to the model number, and add $25.00 to the standard price of models with outputs of 1 to 70 volts; $35.00, for 75 to 200 volt outputs.

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SINGLE OUTPUT PLUG-IN

Nominal Output Voltage	Adjust Range ± V	Output Current Amps.	Regulation Load ± %	Regulation Line ± %	Ripple mV RMS	($) Price	Model	Case Size
1	.25	.100	.25	.05	0.5	$145	1J10	AS
1.5	.5	.750	.7	.05	1	$170	1.5J75	AS
2.5	.5	.750	.7	.05	1	$170	2.5J75	AS
3.3	.5	.750	.7	.05	1	$170	3.3J75	AS
3.3	.5	1.0	.5	.05	1	$185	3.3J100	AS
3.3	.5	1.5	.5	.05	1	$200	3.3J150	US
3.3	.5	2.0	.5	.05	1	$220	3.3J200	WS
3.3	.5	3.0	.5	.05	1	$245	3.3J300	WS
3.3	.5	4.0	.5	.05	1	$270	3.3J400	HS
4	1	.750	.4	.05	1	$170	4J75	AS
4	.5	1.0	.5	.05	1	$185	4J100	AS
5	1	.750	.4	.05	1	$170	5J75	AS
5	.5	1.0	.5	.05	1	$185	5J100	AS
5	.5	1.5	.4	.05	1	$200	5J150	US
5	.5	2.0	.5	.05	1	$220	5J200	WS
5	.5	3.0	.5	.05	1	$245	5J300	WS
5	.5	4.0	.5	.05	1	$270	5J400	HS
5	.5	5.0	.7	.05	1	$290	5J500	HS
6	1	.400	.15	.05	1	$160	6J40	AS
6	1	.750	.3	.05	1	$170	6J75	AS
6	1	1.0	.3	.05	1	$185	6J100	AS
6	.5	2.0	.3	.05	1	$220	6J200	WS
6	.5	3.0	.5	.05	1	$245	6J300	WS
6	.5	4.0	.5	.05	1	$270	6J400	HS
6	.5	5.0	.7	.05	1	$290	6J500	HS
8	1	.750	.2	.05	1	$170	8J75	AS
8	1	1.0	.2	.05	1	$190	8J100	AS
9	1	.750	.15	.05	1	$170	9J75	AS
9	1	1.0	.2	.05	1	$190	9J100	AS
9	1	1.5	.3	.05	1	$220	9J150	US
9	.5	2.0	.2	.05	1	$250	9J200	WS
10	1	.750	.15	.05	1	$170	10J75	AS
10	1	1.0	.2	.05	1	$190	10J100	AS
10	1	1.5	.25	.05	1	$220	10J150	US
10	.5	2.0	.15	.05	1	$250	10J200	WS
10	.5	3.0	.25	.05	1	$290	10J300	HS
12	1	.750	.15	.05	1	$170	12J75	AS
12	1	1.0	.1	.05	1	$190	12J100	AS
12	1	1.5	.2	.05	1	$220	12J150	US
12	.5	2.0	.1	.05	1	$250	12J200	WS
12	.5	3.0	.25	.05	1	$290	12J300	HS
15	1	.400	.1	.05	1	$160	15J40	AS
15	1	.750	.15	.05	1	$170	15J75	AS
15	1	1.0	.15	.05	1	$190	15J100	AS
15	1	1.5	.2	.05	1	$220	15J150	US
15	.5	2.0	.1	.05	1	$250	15J200	WS
15	.5	3.0	.25	.05	1	$290	15J300	HS
16	1	.400	.1	.05	1	$160	16J40	AS
16	1	.750	.15	.05	1	$170	16J75	AS
16	1	1.0	.15	.05	1	$190	16J100	AS
18	1	.400	.1	.05	1	$160	18J40	AS
18	1	.750	.15	.05	1	$170	18J75	AS
18	1	1.0	.15	.05	1	$190	18J100	US
18	.5	2.0	.1	.05	1	$250	18J200	WS
20	1	.400	.1	.05	1	$160	20J40	AS
20	1	.750	.15	.05	1	$170	20J75	AS
20	1	1.5	.2	.05	1	$220	20J150	WS
20	.5	2.0	.1	.05	1	$250	20J200	WS
22	1	.400	.1	.05	1	$160	22J40	AS
22	1	.750	.15	.05	1	$170	22J75	AS
22	1	1.0	.15	.05	1	$190	22J100	US
22	1	1.5	.2	.05	1	$220	22J150	WS
22	.5	2.0	.1	.05	1	$250	22J200	WS
24	1	.400	.05	.05	1	$160	24J40	AS
24	1	.750	.1	.05	1	$170	24J75	AS
24	1	1.0	.1	.05	1	$190	24J100	US
24	1	1.5	.15	.05	1	$220	24J150	WS
24	.5	2.0	.1	.05	1	$250	24J200	WS
25	1	.400	.05	.05	1	$160	25J40	AS
25	1	.750	.1	.05	1	$170	25J75	AS
25	1	1.0	.1	.05	1	$190	25J100	US
25	1	1.5	.15	.05	1	$220	25J150	WS
25	.5	2.0	.1	.05	1	$250	25J200	WS
28	1	.400	.05	.05	1	$160	28J40	AS
28	1	.500	.05	.05	1	$165	28J50	AS
28	1	.750	.1	.05	1	$175	28J75	TS
28	1	1.0	.1	.05	1	$195	28J100	US
28	1	1.5	.15	.05	1	$225	28J150	WS
28	.5	2.0	.1	.05	1	$260	28J200	WS
30	1	.400	.05	.05	1	$160	30J40	AS
30	1	.500	.05	.05	1	$170	30J50	AS
30	1	.750	.1	.05	1	$185	30J75	TS
30	1	1.0	.1	.05	1	$200	30J100	US
30	1	1.5	.15	.05	1	$235	30J150	WS
30	.5	2.0	.1	.05	1	$265	30J200	WS
32	1	.300	.05	.05	1	$165	32J30	AS
32	1	.500	.05	.05	1	$175	32J50	AS
32	1	.600	.1	.05	1	$185	32J60	TS
32	1	1.0	.1	.05	1	$200	32J100	US
32	1	1.5	.1	.05	1	$235	32J150	WS
34	1	.500	.05	.05	1	$175	34J50	AS
35	1	.500	.05	.05	1	$175	35J50	AS
36	1	.300	.05	.05	1	$165	36J30	AS
36	1	.500	.05	.05	1	$175	36J50	AS
36	1	.600	.1	.05	1	$185	36J60	TS
36	1	.800	.1	.05	1	$195	36J80	TS
36	1	1.0	.2	.05	1	$210	36J100	US
36	1	1.5	.1	.05	1	$240	36J150	WS
38	1	.500	.05	.05	1	$185	38J50	AS
38	1	1.0	.2	.05	1	$215	38J100	US
40	1	.300	.05	.05	1	$170	40J30	AS
40	1	.400	.1	.05	1	$185	40J40	AS
40	1	.600	.1	.05	1	$195	40J60	TS
40	1	1.0	.2	.05	1	$220	40J100	US
42	1	.400	.1	.05	1	$175	42J40	AS
42	1	.600	.15	.05	1	$200	42J60	TS
45	1	.400	.1	.05	1	$190	45J40	AS
45	1	.600	.15	.05	1	$210	45J60	TS
48	1	.300	.05	.05	1	$185	48J30	AS
48	1	.400	.1	.05	1	$195	48J40	AS
48	1	.600	.15	.05	1	$220	48J60	TS
50	1	.300	.05	.05	1	$190	50J30	AS
50	1	.500	.1	.05	1	$220	50J50	TS
55	1	.200	.05	.05	1	$175	55J20	AS
60	1	.200	.05	.05	1	$190	60J20	AS
60	1	.300	.05	.05	1	$200	60J30	AS
60	1	.400	.05	.05	1	$220	60J40	TS
65	1	.100	.05	.05	1	$175	65J10	AS
65	1	.300	.05	.05	1	$210	65J30	AS
70	1	.200	.05	.05	1	$195	70J20	AS
70	1	.300	.05	.05	1	$215	70J30	AS
75	1	.200	.05	.05	1	$210	75J20	AS
80	1	.200	.05	.05	1	$215	80J20	AS
90	1	.100	.05	.05	1	$195	90J10	AS
90	1	.200	.05	.05	1	$220	90J20	AS
95	1	.100	.05	.05	1	$200	95J10	AS
95	1	.200	.05	.05	1	$225	95J20	AS
100	1	.100	.05	.05	1	$215	100J10	AS
100	1	.200	.05	.05	1	$240	100J20	AS
105	1	.100	.05	.05	1	$215	105J10	AS
105	1	.200	.05	.05	1	$240	105J20	AS
110	1	.100	.05	.05	1	$220	110J10	AS
110	1	.200	.05	.05	1	$245	110J20	AS
120	1	.100	.05	.05	1	$235	120J10	AS
120	1	.200	.05	.05	1	$260	120J20	AS
125	1	.100	.05	.05	1	$235	125J10	AS
125	1	.200	.05	.05	1	$260	125J20	AS
130	1	.100	.05	.05	1	$240	130J10	AS
130	1	.200	.05	.05	1	$265	130J20	AS
140	1	.200	.05	.05	1	$270	140J20	AS
150	1	.050	.05	.05	1	$220	150J05	AS
150	1	.200	.05	.05	1	$270	150J20	AS
200	1	.100	.05	.05	1	$265	200J10	AS

WIDE ADJUST OUTPUT

Shown below is a partial listing of models with increased voltage adjustment ranges. Contact the factory for information on other models.

Output Voltage Range	Output Current Amps.	Regulation Load ± %	Regulation Line ± %	Ripple mV RMS	($) Price	Model	Case Size
2 to 30	.300	.5	.05	1	$165	J230	AS
3 to 15	.400	.5	.05	1	$165	J315	BS
4 to 10	1.5	.5	.05	1	$260	J410	US
5 to 15	2.0	.5	.1	5	$300	J515	HS
5 to 25	.100	.1	.05	1	$160	J525	AS
6 to 30	.200	.1	.05	1	$165	J630	AS
10 to 18	.600	.3	.05	1	$175	J1018	BS
10 to 40	.200	.1	.05	1	$170	J1040	AS
15 to 25	.500	.1	.05	1	$190	J1525	BS
15 to 30	.300	.1	.05	1	$190	J1530	BS
16 to 24	.750	.15	.05	1	$195	J1624	BS
18 to 30	.400	.1	.05	1	$185	J1830	BS
20 to 28	.500	.1	.05	1	$190	J2028	BS
23 to 32	1.0	.15	.05	1	$220	J2332	US
24 to 32	.500	.1	.05	1	$165	J2432	BS
24 to 40	.400	.1	.05	1	$190	J2440	BS
24 to 50	.250	.1	.05	1	$165	J2450	AS
28 to 60	.250	.1	.05	1	$220	J2860	BS
30 to 70	.300	.1	.05	1	$250	J3070	BS

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Plug-in

DUAL ISOLATED OUTPUTS (User-selectable)

LINEAR REGULATED
AC-DC



- Shipped Within 3 Days
- All Models U.L. Recognized
- Five Year Warranty

Space-saving Acopian duals combine two electrically independent DC outputs in a single case. Either identical or different outputs may be selected. And every combination is supplied with Acopian's usual 3 day shipment guarantee and 5 year warranty.

Like all Acopian Plug-ins, a dual-output module can be installed in seconds. Simply plug it into a standard 11-pin socket. Acopian duals are exceptionally dependable, too - offering the highest reliability of any available series-regulated power supply.

SPECIFICATIONS

Input Voltage: 105-125 VAC, 50-400 Hz, single phase.

Output Specifications: See page 87.

Polarity: Outputs are floating. Each section may be independently connected to provide any combination of positive and negative outputs.

Short Circuit Protection: Delivers current surges without damage—to protect against prolonged overloads and shorts, use of an input fuse is recommended.

Temperature Coefficient: 0.02%/°C (Typical).

Ambient Operating Temperature: –10 to +65°C. No derating required.

MIL Tested and Extended Temperature Range: See page 81.

Storage Temperature: –55 to +85°C.

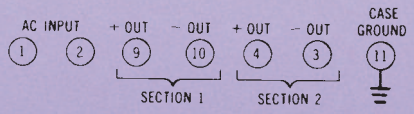
Installation: Plugs into standard 11-pin octal-type socket (see page 81). Four mounting holes (6-32) are provided in the base for fastening the module when used in other than the upright position, or if extreme vibration will be encountered.

HOW TO ORDER

Select two **sections** from the table on page 87. The complete model number is the combination of the two **sections** selected. Example: The combination of section 6J40D and section 12J100D is Model 6J40D-12J100D. Always assign the lower voltage section first. (Two of the same section can also be selected.) Where the indicated case sizes for the two sections differ, the larger case size applies.

For pricing purposes, add the costs of the individual sections selected. Example: The price of Model 6J40D-12J100D is $215.00 total ($95.00 plus $120.00).

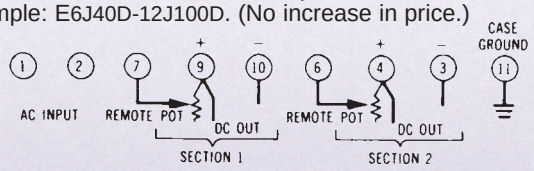
PIN CONNECTIONS: Standard model.



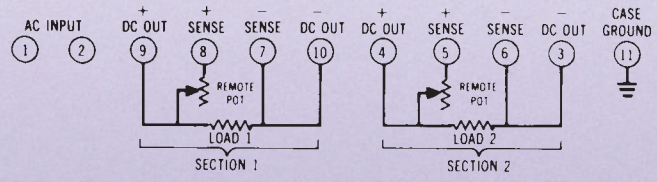
OPTIONS

Solder Terminals: All models can be furnished with solder terminals instead of the octal type plug. Contact factory or see web site for detailed information.

Remote Output Adjustment: All models have local voltage adjustments. When provision for remote (external) adjustments is also desired, add prefix "E" to model number. Example: E6J40D-12J100D. (No increase in price.)



Remote Sensing: Provision for remote sensing of the output voltages, to compensate for drops in the load lines, can be furnished at an additional charge of $20.00 per unit. Add prefix "R" to model number when ordering. "R" power supplies have local voltage adjustments and provision for remote (external) output adjustments.



230 Volt Input: All models can be alternately furnished for operation on inputs of 210 to 250 VAC, 50 to 400 Hz. Add suffix "–230" to model number and $25.00 to price. The "–230" option requires two additional days.

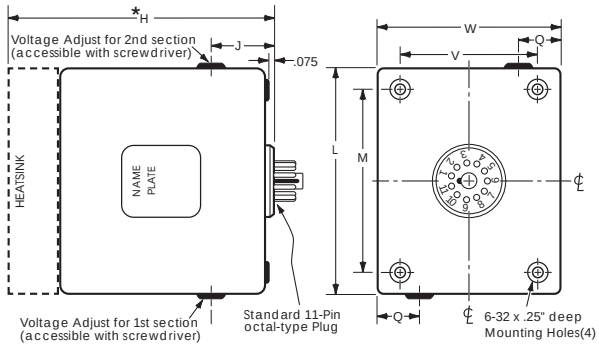
Overvoltage Protection: Two separate, preset overvoltage protection circuits, one for each output. To order, add prefix "V" to model number and add $30.00 to the standard price for outputs up to 70 volts; add $50.00 if either or both outputs are greater than 70 volts.

Online Ordering and Instant Quotes for ALL Acopian power supplies at ***www.acopian.com***
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DUAL OUTPUT PLUG-IN (User-selectable)

Nominal Output Voltage	Adjust Range ± V	Output Current Amps.	Regulation Load ± %	Regulation Line ± %	Ripple mV RMS	(see 'How to Order') Price per Section ($)	(see 'How to Order') Section	Case Size
3.3	.5	.500	.5	.05	1	$125	3.3J50D	TDJ
3.3	.5	.700	.5	.05	1	$135	3.3J70D	UDJ
3.3	.5	1.0	.5	.05	1	$145	3.3J100D	WDJ
4	1	.500	.3	.05	1	$125	4J50D	TDJ
4	.5	.700	.4	.05	1	$135	4J70D	UDJ
4	.5	1.0	.5	.05	1	$145	4J100D	WDJ
5	1	.400	.3	.05	1	$120	5J40D	TDJ
5	1	.500	.3	.05	1	$125	5J50D	TDJ
5	.5	.700	.4	.05	1	$135	5J70D	UDJ
5	.5	1.0	.5	.05	1	$145	5J100D	WDJ
5	.25	2.0	.5	.05	1	$175	5J200D	WDJ
6	1	.400	.15	.05	1	$120	6J40D	TDJ
6	1	.500	.15	.05	1	$125	6J50D	TDJ
6	.5	.700	.2	.05	1	$135	6J70D	UDJ
6	.5	1.0	.3	.05	1	$145	6J100D	WDJ
7	1	.400	.15	.05	1	$120	7J40D	TDJ
7	1	.500	.15	.05	1	$125	7J50D	TDJ
7	.5	.700	.2	.05	1	$135	7J70D	UDJ
7	.5	1.0	.3	.05	1	$145	7J100D	WDJ
8	1	.400	.1	.05	1	$120	8J40D	TDJ
8	1	.500	.1	.05	1	$125	8J50D	TDJ
8	.5	.700	.15	.05	1	$135	8J70D	UDJ
8	.5	1.0	.2	.05	1	$145	8J100D	WDJ
9	1	.500	.1	.05	1	$125	9J50D	TDJ
9	.5	.700	.15	.05	1	$135	9J70D	UDJ
9	.5	1.0	.2	.05	1	$145	9J100D	WDJ
10	1	.400	.1	.05	1	$120	10J40D	TDJ
10	1	.500	.1	.05	1	$125	10J50D	TDJ
10	.5	.700	.15	.05	1	$135	10J70D	UDJ
10	.5	1.0	.2	.05	1	$145	10J100D	WDJ
12	1	.400	.1	.05	1	$120	12J40D	TDJ
12	1	.500	.1	.05	1	$125	12J50D	TDJ
12	.5	.700	.1	.05	1	$135	12J70D	UDJ
12	.5	1.0	.1	.05	1	$150	12J100D	WDJ
13	1	.500	.1	.05	1	$125	13J50D	TDJ
13	.5	.700	.1	.05	1	$135	13J70D	UDJ
13	.5	1.0	.15	.05	1	$150	13J100D	WDJ
15	1	.400	.1	.05	1	$120	15J40D	TDJ
15	1	.500	.1	.05	1	$125	15J50D	TDJ
15	.5	.700	.1	.05	1	$135	15J70D	UDJ
15	.5	1.0	.15	.05	1	$150	15J100D	WDJ
18	1	.400	.1	.05	1	$120	18J40D	TDJ
18	1	.500	.1	.05	1	$125	18J50D	TDJ
18	1	.750	.15	.05	1	$140	18J75D	WDJ
18	.5	1.0	.15	.05	1	$150	18J100D	WDJ

Nominal Output Voltage	Adjust Range ± V	Output Current Amps.	Regulation Load ± %	Regulation Line ± %	Ripple mV RMS	(see 'How to Order') Price per Section ($)	(see 'How to Order') Section	Case Size
20	1	.400	.1	.05	1	$120	20J40D	TDJ
20	1	.500	.1	.05	1	$125	20J50D	TDJ
20	1	.750	.15	.05	1	$140	20J75D	WDJ
22	1	.400	.1	.05	1	$120	22J40D	TDJ
24	1	.400	.1	.05	1	$120	24J40D	TDJ
26	1	.400	.05	.05	1	$120	26J40D	TDJ
28	1	.400	.05	.05	1	$120	28J40D	TDJ
30	1	.400	.05	.05	1	$125	30J40D	TDJ
32	1	.300	.05	.05	1	$125	32J30D	TDJ
34	1	.300	.05	.05	1	$125	34J30D	TDJ
35	1	.200	.05	.05	1	$120	35J20D	TDJ
36	1	.200	.05	.05	1	$120	36J20D	TDJ
40	1	.200	.05	.05	1	$125	40J20D	TDJ
45	1	.200	.05	.05	1	$125	45J20D	TDJ
48	1	.200	.05	.05	1	$135	48J20D	TDJ
50	1	.200	.05	.05	1	$140	50J20D	TDJ
55	1	.200	.05	.05	1	$145	55J20D	TDJ
60	1	.100	.05	.05	1	$135	60J10D	TDJ
65	1	.100	.05	.05	1	$140	65J10D	TDJ
70	1	.050	.05	.05	1	$125	70J05D	TDJ
70	1	.100	.05	.05	1	$140	70J10D	TDJ
75	1	.100	.05	.05	1	$145	75J10D	TDJ
80	1	.100	.05	.05	1	$150	80J10D	TDJ
85	1	.100	.05	.05	1	$160	85J10D	TDJ
90	1	.100	.05	.05	1	$165	90J10D	TDJ
95	1	.100	.05	.05	1	$170	95J10D	TDJ
100	1	.100	.05	.05	1	$175	100J10D	TDJ
105	1	.100	.05	.05	1	$175	105J10D	TDJ
110	1	.100	.05	.05	1	$185	110J10D	TDJ
115	1	.100	.05	.05	1	$190	115J10D	TDJ
120	1	.100	.05	.05	1	$195	120J10D	TDJ
125	1	.100	.05	.05	1	$195	125J10D	TDJ
130	1	.100	.05	.05	1	$200	130J10D	TDJ
135	1	.100	.05	.05	1	$200	135J10D	TDJ
140	1	.100	.05	.05	1	$210	140J10D	TDJ
145	1	.100	.05	.05	1	$210	145J10D	TDJ
150	1	.100	.05	.05	1	$210	150J10D	TDJ



*H dimension includes HEATSINK on UDJ and WDJ case sizes.

Case Size	L	W	H*	M	V	J	Q	Approx. Weight
TDJ	4.15	3.33	4.85	2.750	2.562	1.12	.62	3 lb.
UDJ	4.15	3.33	5.53	2.750	2.562	1.12	.62	3 lb.
WDJ	5.02	3.40	5.53	3.562	2.562	1.12	.62	4 lb. 12 oz.

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Acopian

Plug-in
DUAL TRACKING OUTPUTS
LINEAR REGULATED
AC-DC



- Shipped Within 3 Days
- All Models U.L. Recognized
- Five Year Warranty

Dual tracking output Plug-in power supplies provide the balanced voltages commonly required for driving operational amplifiers and related linear circuitry. The convenient plug-in configuration simplifies mounting and wiring, and connections for the remote sensing of the output voltages, to permit compensation of load line voltage drops, are a standard feature.

SPECIFICATIONS

Input Voltage: 105-125 VAC, 50-400 Hz, single phase.

Output Tracking: Within 1%.

Polarity: Positive output, common, and negative output.

Remote Voltage Sensing: Provision for sensing the output voltage across the load, so that drops in the load lines are compensated, is a standard feature.

Temperature Coefficient: 0.02%/°C (Typical).

Ambient Operating Temperature: –10 to +65°C.
No derating required.

Storage Temperature: –55 to +85°C.

Installation: Plugs into standard 8-pin octal socket (see page 81). Four mounting holes (6-32) are provided in the base for fastening the module when used in other than the upright position, or if extreme vibration will be encountered.

PIN CONNECTIONS:

AC INPUT	AC INPUT	+V	+S	COM	–S	–V	CASE GROUND
①	②	③	④	⑤	⑥	⑦	⑧

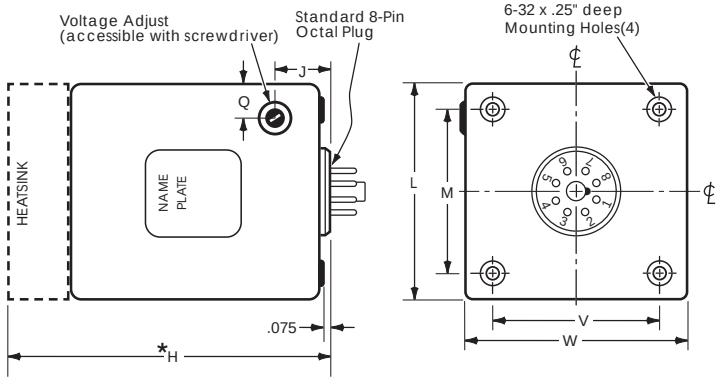
OPTIONS

Solder Terminals: All models can be furnished with solder terminals instead of the octal-type plug. To order, add suffix “L” to model number and $30.00 to price.

230 Volt Input: All models can be alternately furnished for operation on inputs of 210-250 VAC, 50-400 Hz. Add suffix “–230” to model number and $25.00 to price. The “–230” option requires two additional days.

Overvoltage Protection: A built-in, preset overvoltage protection circuit is available on all models. If either output fails, both outputs are ‘crowbarred’. To order, add prefix “V” to the model number, and increase standard price by $30.00.

Nominal Output Voltages	Adjust Range ± V	Amps. per Output	Regulation Load ± %	Regulation Line ± %	Ripple mV RMS	($) Price	Model	Case Size
±5	.25	.750	.1	.1	1.5	$250	JD5-75	BD
±5	.25	1.5	.1	.1	1.5	$285	JD5-150	DU
±12	1	.400	.1	.1	1.5	$220	JD12-40	DA
±12	1	.700	.1	.1	1.5	$250	JD12-70	BD
±12	1	1.0	.1	.1	1.5	$285	JD12-100	DU
±15	1	.400	.1	.1	1.5	$220	JD15-40	DA
±15	1	.700	.1	.1	1.5	$250	JD15-70	BD
±15	1	1.0	.1	.1	1.5	$285	JD15-100	DU



*H dimension includes HEATSINK on BD and DU case sizes.

Case Size	L	W	H*	M	V	J	Q	Approx. Weight
DA	3.40	3.28	4.67	2.625	2.625	1.00	.66	2 lb. 8 oz.
BD	3.40	3.28	5.33	2.625	2.625	1.00	.66	2 lb. 14 oz.
DU	3.33	4.15	5.53	2.562	2.750	1.12	.62	3 lb. 8 oz.

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CIRCUIT ENCLOSURE BOXES

Versatile enclosures for housing prototypes, adapters, testers, etc.



You can now package your own circuits in the same rugged casework used for Acopian power supplies.

Any case size shown in the Acopian catalog can be purchased as a Circuit Enclosure Box.

DESCRIPTION

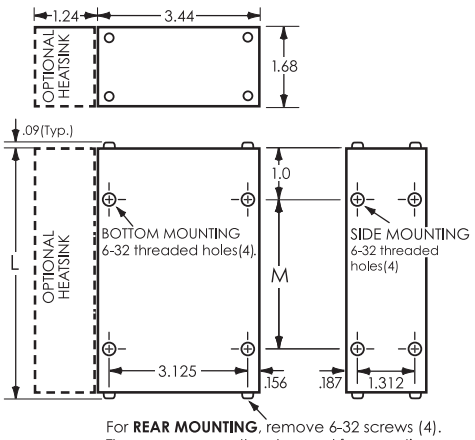
Moderate-dissipation components may be directly mounted to the case for heat sinking. Connectors, switches, controls and indicators are easily installed on the front and rear covers.

Sides and Bottom (Narrow Profile Enclosures): Attractive extruded aluminum channel (.08" thick) withstands even severe abuse.
Top cover (Narrow Profile Enclosures): Perforated for ventilation, the sturdy aluminum top (0.032" thick) slides into slots without the need for mounting hardware.
Sides (Gold Box Enclosures): Grooved; attractive and rugged extruded aluminum sides (.08" thick) can withstand severe abuse.
Top and Bottom Covers (Gold Box Enclosures): Perforated aluminum (0.032" thick); ideal for ventilation.
Front and Rear covers: Aluminum (0.062" thick).
Internal Circuit Board Mounting (Narrow Profile Enclosures): Grooves 1/4" above the inside bottom of the case are for holding a circuit board (0.062" thick).
Color: Flat gold (sides are flat black on Gold Box Enclosures).
Mounting: Threaded mounting holes are provided to permit mounting the boxes to an equipment frame or bracket. Accessory Mounting Kits are available for wall mounting or DIN Rail mounting (see page 91).

ACCESSORIES

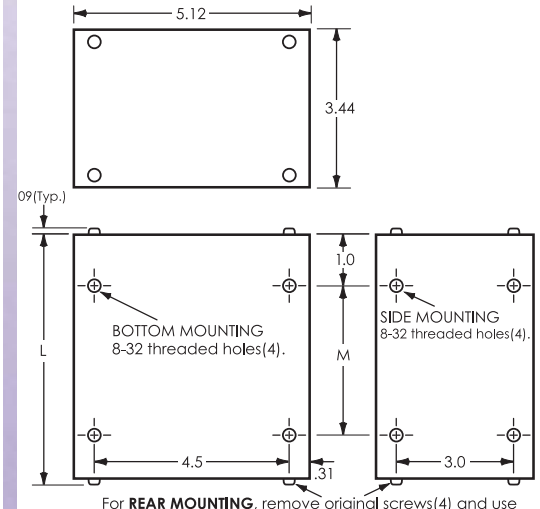
Circuit Board (for Narrow Profile Enclosures): Perforated board for mounting hand-wired components. Contact factory for sizes.
Mounting Kits: For wall mounting or DIN Rail mounting (see page 91).
Heat sink (for Narrow Profile Enclosures): High-dissipation semiconductors may be mounted on an accessory heat sink. (Provided with mounting hardware, including standoffs for thermal isolation. The heat sink is black anodized.) Contact factory.
Heat sink (for Gold Box Enclosures): An optional heat sink can be ordered for the left side to replace the grooved aluminum side. High-dissipation semiconductors may be mounted on the accessory heat sink. To order, add suffix "H" to model number and $2.00 to price (for models EG9H and EG13H, add $4.00).

Narrow Profile Circuit Enclosure Boxes



Case Size	L	M	Approx. Weight	Price ($)
EN6	6.59	4.0	9 oz.	$27
EN8	8.47	5.0	12 oz.	$30

Gold Box Circuit Enclosure Boxes



Case Size	L	M	Approx. Weight	Price ($)
EG3	3.71	1.62	11 oz.	$25
EG5	5.09	3.0	14 oz.	$28
EG6	6.59	4.0	1 lb. 2 oz.	$29
EG9	9.25	6.0	1 lb. 7 oz.	$33
EG13	13.25	10.0	2 lb. 1 oz.	$38

Other size Circuit Enclosure Boxes

Rack Mounting;
see page 28 & 69 drawings

Wall Mounting;
see page 21 drawing

SW Gold Box;
see page 55 drawing

HV Gold Box;
see page 71 & 73 drawings

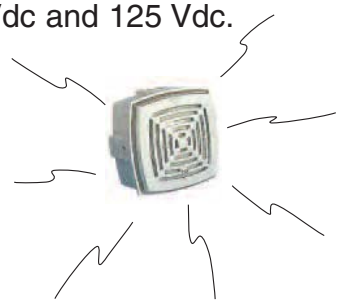
Plug-in;
see page 84 drawing

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Under/Overvoltage Monitors

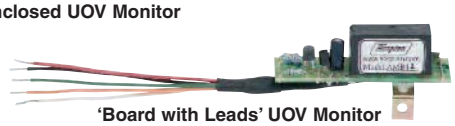
These modules can be used with any manufacturer's power supply between 5 Vdc and 125 Vdc.

- Shipped Within 3 Days
- Five Year Warranty





Enclosed UOV Monitor



'Board with Leads' UOV Monitor



These Under/Overvoltage Monitors may be used as independent accessories for any power supply to control an external horn or light, or to signal your PLC . These modules can be used on power supplies with DC voltages from 5 to 125 Vdc. SPDT relay contacts switch if the power supply's output deviates by:

1.0 volt or more (for 5 volt outputs)
2.0 volts or more (for 6 to 48 volt outputs)
3.0 volts or more (for 49 to 125 volt outputs)

SPECIFICATIONS

Relay contact ratings: 120 VAC, 8A / 60 Vdc, 1A. (To comply with SELV requirements, limit switched voltage to 60Vdc/42 VAC.)

Ambient Operating Temperature: -20 to +71°C.

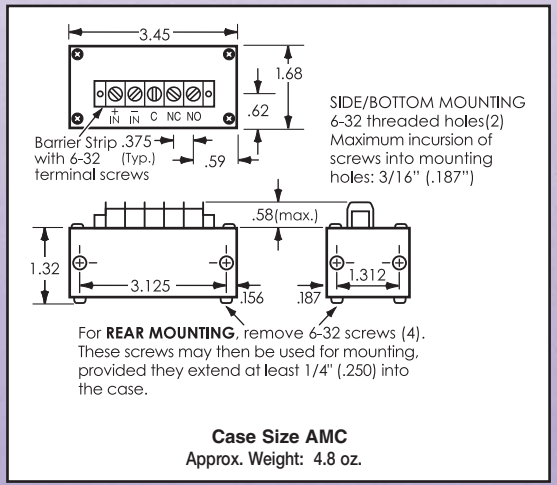
Storage Temperature: –40 to +85°C.

Power Supply Output	UOV Monitor Operating Current
5 Vdc to 11 Vdc	(typ) 80ma
12 Vdc to 23 Vdc	(typ) 40ma
24 Vdc to 47 Vdc	(typ) 25ma
48 Vdc to 125 Vdc	(typ) 15ma

Enclosed UOV Monitor

The front panel LED lights when voltage is within range. Order model number AMC?? replacing the ?? with the DC voltage to be monitored. The price is $65.00.

Mounting: Threaded holes on the bottom and right side surface may be used for mounting. Accessory Mounting Kit NP6 (see page 91) is available to enable mounting the Enclosed UOV Monitor when the opposite side of the mounting surface is inaccessible. To order a DIN rail mounting unit, add suffix "–DIN" to the model number and $5.00 to the price.



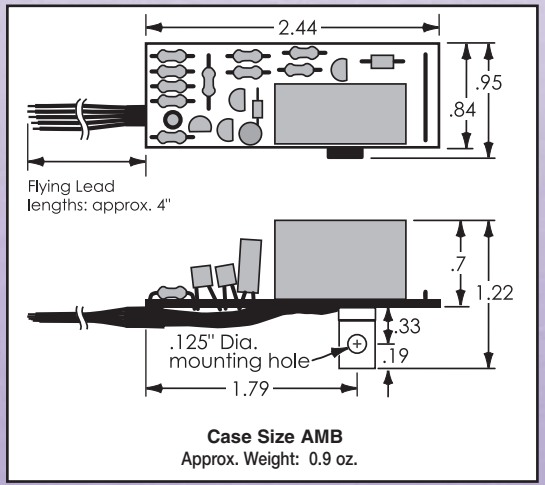
Case Size AMC
Approx. Weight: 4.8 oz.

'Board with leads' UOV Monitor

Order model number AMB?? replacing the ?? with the DC voltage to be monitored. The price is $35.00.

Mounting: An electrically isolated bracket with a .125" diameter mounting hole has been incorporated into the 'Board with leads' UOV Monitor to enable mounting in any orientation.

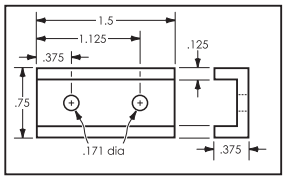
Red flying lead: Connects to '+ DC' being monitored.
Black flying lead: Connects to '– DC' being monitored.
White flying lead: Common (C) relay connection.
Green flying lead: Normally Closed (NC) relay connection.
Orange flying lead: Normally Open (NO) relay connection.



Case Size AMB
Approx. Weight: 0.9 oz.

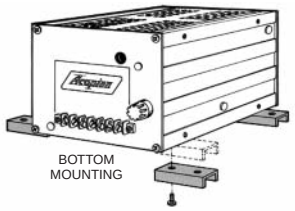
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WALL MOUNTING KITS ...$8

These kits provide a way of mounting power supplies on a wall or panel when the other side of the mounting surface is inaccessible. Each kit consists of four aluminum brackets and four machine screws for fastening them to the power supply, effectively adding mounting flanges to the power supply.

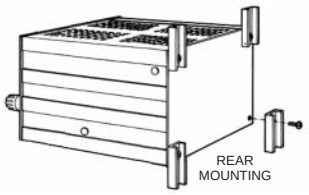


For Gold Box and modular High Voltage power supplies:

GB8 Mounting Kit *(#8-32 mounting holes)*

Can be used on these case sizes:

CM6, CM9, CM13, CH11, CH16, DG5, DG6, DG9, G3, G5, G5D, G6, G9, G13, GT5, GT6, GT9, GT13, H8, H11, H16, HD345, HD355, HA349, HA359, HT11, HT16, M6, M9, M13, RM6, RW6 TG5, TG6, TG9, TG13, TH11, WG7, WM6, WM9, Y3, Y5, Y6, YH11, YA



For Narrow Profile power supplies:

NP6 Mounting Kit *(#6-32 mounting holes)*

Can be used on these case sizes:

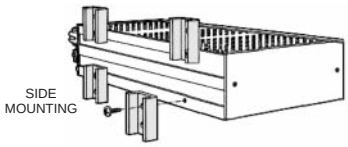
AMC, CN8T, DN6B, DN6A, DN8A, DN8, F6T, F8T, N8T, WL9, WN6A, WN6B, WN8, WN8A, TN6T

NP6L Mounting Kit *(#6-32 mounting holes)*

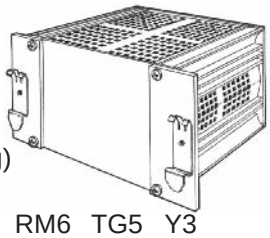
Model NP6L consists of two brackets 1.5" long as shown above, and two 2.5" long brackets (to extend beyond heat sink).

Can be used on these case sizes:

CN8H, N8H, TN8H



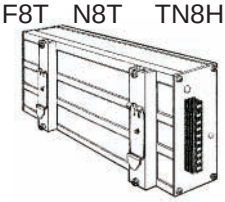
DIN RAIL MOUNTING KITS ...$15



NPH35DIN Mounting Kit (Horizontal mounting)

Can be used on these case sizes:

CN8H	DN6A	F6T	N8H	TN6T	WN6A
CN8T	DN6B	F8T	N8T	TN8H	WN6B
	DN8				WN8
	DN8A				WN8A



GR35DIN Mounting Kit (Rear mounting)

Can be used on these case sizes:

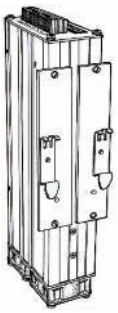
CM6	DG5	G3	GT5	HD345	M6	RM6	TG5	Y3
CM9	DG6	G5	GT6	HD355	M9	RW6	TG6	Y5
	DG9	G5D	GT9				TG9	Y6
		G6						
		G9						

(Can be used, but not recommended on case sizes: G13, GT13, M13, TG13)

NPV35DIN Mounting Kit (Vertical mounting)

Can be used on these case sizes:

CN8H	DN6A	F6T	N8H	TN6T	WN6A
CN8T	DN6B	F8T	N8T	TN8H	WN6B
	DN8				WN8
	DN8A				WN8A



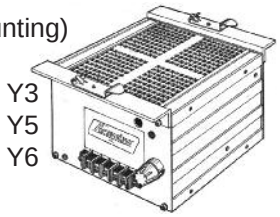
WL35DIN Mounting Kit (Vertical mounting)

Can be used on this case size: WL9

GH35DIN Mounting Kit (Horizontal mounting)

Can be used on these case sizes:

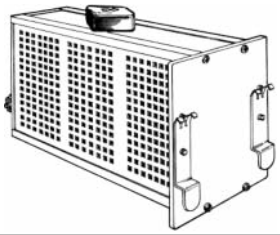
CM6	DG5	G3	GT5	M6	TG5	Y3
CM9	DG6	G5	GT6	M9	TG6	Y5
CM13	DG9	G5D	GT9	M13	TG9	Y6
		G6	GT13		TG13	
		G9				
		G13				



NPR35DIN Mounting Kit (Rear mounting)

Can be used on these case sizes:

CN8H	F6T	N8H	TN6T
CN8T	F8T	N8T	TN8H

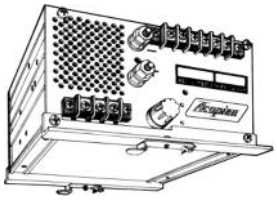


CH35DIN Mounting Kit (Horizontal mounting)

Can be used on these case sizes: RM6, RW6

WH35DIN Mounting Kit (Horizontal mounting)

Can be used on these case sizes: WM6, WM9



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FIND POWER SUPPLY BY MODEL NUMBER

Over 500,000 different Acopian model numbers are possible considering all the different combinations of outputs, inputs and options available. However, **by matching the model number format of the power supply you are looking for with the model number format from the list below, you will be able to find the page it is on.**

- For the model that you are looking for, replace the 'numbers' in that model number with the # symbol. Examples: To find model number A24H8500, use A#H#. To find model number 24EB60, use #EB# (The numbers(#), which indicate voltage and current, will vary depending on your particular model number. The letters do not vary.)
- Ignore V or 3V (Overvoltage Protection option) if it is in the front of the model number you are looking for.
- Option letter prefixes E and R are included with parenthesis around them, (E) and (R), in the list below.
- Ignore any of these option letters/numbers which may appear at the end of the model number you are looking for: A,F,G,H,K,L,M,P,R,S,T,Y or -230.

Model Number Format	Page
A#H#	48-49
A#HT#	49
A#HX#	59
A#MT#	48-49
A#MX#	59
A#NT#	41
A#NX#	59
A#PX#	31
A#TN#	41
A#XN#	59
B#FT#	41
B#G#	48-49
B#GT#	49
B#TN#	41
#C#FT#	79
#C#NT#	79-80
D#-#	34
D#-#A	34
#D#A	66
DB#-#	37
#E#	33
#E#A	33
#E#D#	75
#E#E#	75
#EB#	37
#EB#E#	77
#EB#D#	77
(E)#J#	85
(E)#J#D-#J#D	87
(E)J#	85
(E)P#HX#	59
(E)P#MX#	59
(E)P#PX#	31
FD#-#A	62
#GT#D-#GT#D	64-65
J#	85
#J#	85
#J#D-#J#D	87
JD#-#	88
LD#-#	62
N#HA#	71
N#HD#	73
N#HP#	69
NX-#	33
NX-#A	33
NX-#B	37
P#HA#	71
P#HD#	73
P#HP#	69
P#HX#	59
P#MX#	59
P#PX#	31
PD#-#	29
#PT#	29
#PH#	29
R#G#	20
R#H#	18
R#M#	18
R#N#T	18
R#N#X	18
R#P#	19
R#PH#	19
R#W#	20
R#WP#	23
R#WP#X	23
RM#H#	24
RM#H#C#	24
RM#M#	24
RM#M#C#	24
RM#N#T	24
RM#N#TC#	24
RM#N#X	24
RM#N#XC#	24
RM#WN#	26
RM#WN#A	26
RM#WN#AC#	26
RM#WN#C#	26
RWL#G#	20
RWL#H#	18
RWL#M#	18
RWL#M#X	18
RWL#N#T	18
RWL#N#X	18
RWL#W#	20
(R)#J#	85
(R)#J#D-#J#D	87
(R)B#G#	48-49
(R)B#GT#	49
(R)J#	85
TD#-#	62
#T#A	67
U#	83
U#Y#	57
U#YA#	57
#U#	83
#UA#	83
#UP#	83
#UY#	57
UP#	83
US#	83
W#FT#	43
W#GT#	55
W#MT#	55
W#LT#	53
W#NT#	45
#WB#	39
#WL#	39
Y#HX#	61
Y#LX#	53
Y#MX#	61
Y#PX#	61

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ORDERING INFORMATION & Terms and Conditions

ACOPIAN SELLS FACTORY DIRECT WORLDWIDE: We do not use representatives or distributors. Contact Acopian for technical information or a quote.

WARRANTY: Acopian power supplies are warranted to be free from defects in material and workmanship for a period of five years (encapsulated devices, for one year) from date of original shipment. Acopian's obligation under this warranty is limited to repairing any power supply returned to the factory Service Department in Easton, PA and replacing any defective parts. Mini Encapsulated power supplies are not repairable. Authorization must be obtained from Acopian before a power supply may be returned for repair. Units must be well packed when shipping to Acopian; the repair of any damage incurred during shipment will be charged. Transportation charges are to be paid by the purchaser. A reinspection and handling charge will be applied to returned units found to have no defects. If a failure has been caused by misuse, operation in excess of specifications, or modification by the customer, repairs will be billed at cost; in such cases, a cost estimate will be submitted before work is started.

Acopian reserves the right to make changes or improvements in its products without incurring any obligation to install the same on products previously manufactured.

This warranty is in lieu of all other warranties, obligations, and liabilities, expressed or implied, and is the purchaser's exclusive remedy. Acopian makes no warranty, either express or implied, of merchantability, fitness for a particular purpose or otherwise. In no event shall Acopian be liable whether in contract, tort, or negligence, for special, indirect, incidental or consequential damages of any kind, including loss of business or profits, or any other losses incurred by the purchaser or any third party, the Customer's remedies being limited, at Acopian's option, to replacement, repair or credit at the price on the date of claim.

The validity, performance and construction of all terms and conditions and any sale made by Acopian shall be determined by the law of Pennsylvania, without regard to its conflict of law principles, and all parties to the transaction expressly consent to the jurisdiction of such courts and consent to the venue of the Court of Common Pleas for Northampton County, Pennsylvania.

PRICES: The prices shown are F.O.B. our factory; Easton,PA. or Melbourne, FL.. All prices and specifications are subject to change without notice. Minimum order is $50.00.

TERMS: Net 30 days, subject to credit approval. Visa, MasterCard and American Express also accepted.

SHIPPING: Location permitting, small shipments are made by United Parcel Service, or by Parcel Post; larger shipments, by insured motor freight collect. Shipments can be made by air upon request. Risk of loss shall be F.O.B. Our Factory, even in cases where freight may be prepaid or allowed to destination by Acopian. If equipment is received in damaged condition, it is the customer's responsibility to contact the carrier and file a claim for damages.

TIME FOR DELIVERY: The time for delivery quoted by Acopian is the time required to ship from our plants. We will not be liable for delays in delivery caused by any reason beyond our control, including but not limited to acts of God, casualty, civil disturbance, labor disputes, transportation or supply difficulties, or any interruption of our facilities, and the quoted time for delivery shall be extended during the continuance of such conditions and for a reasonable time thereafter. In no event will Acopian be liable for any premium transportation, reprocurement, or similar costs incurred by the Customer as a result of conditions beyond Acopian's control resulting in Acopian's inability to deliver product in accordance with customer's requested delivery schedules.

QUANTITY DISCOUNTS: Discounts are available to quantity buyers and are dependent upon the order quantity and the manufacturing scheduling anticipated by the order, and apply only to the quantity and delivery ordered. Partial shipments are considered as separate orders for discounting purposes.

EXPORT ORDERS: A minimum export documentation charge of $60.00 applies. (A minimum charge of $25.00 applies on orders requiring customs forms for Canadian orders and for orders to certain U.S. territories.)

MOISTURE/FUNGUS PROOFING: Power supplies can be furnished with a moisture and fungus resistant varnish applied to interior surfaces. To order, add the suffix letter F to the model number. The additional cost is $25.00 per output and requires two additional days. Not available on High Voltage, Mini Encapsulated, Rack Mounting, and Gold Box Switching models.

TAGGING: Maximum of 15 characters/spaces. Add $10.00 to price.

TEST DATA: Cost, $35.00 or 2% of order, whichever is greater.

SPECIAL MODELS/MODIFICATIONS: Cataloged models can be altered at the factory to meet special requirements. Contact the Applications Engineering Department to discuss your needs.

PARTS: The designs used in Acopian power supplies utilize standard components to the greatest practical extent. When replacements are required, the types originally used, or their equivalents, can usually be obtained most quickly from a local electronic components distributor.

Special components, such as transformers, are stocked at the factory warehouses. Contact the Applications Engineering Department for information on the parts required, referencing the model number of the power supply, the circuit designation of the component, and a description.

PURCHASE ORDER ACCEPTANCE: Orders are accepted subject to Acopian's Terms and Conditions. Any Terms and Conditions of any Purchaser's order, agreement, or understanding which are in addition to or inconsistent with Acopian's shall not be binding upon Acopian unless made in writing and accepted over the signature of an authorized officer of Acopian. Orders shall not be considered accepted until entered into production at our plant. Acopian reserves the right to refuse any order. All typographical and clerical errors are subject to correction by Acopian.

RETURNED GOODS: Acopian products are built on a per-order basis, and ordinarily no credit can be extended for their return. No goods will be accepted for return unless authorized in writing by Acopian.

CHANGES: The customer may, by a written notice, request changes within the general scope of the order, in the drawings, designs or specifications; method of shipment; and place of delivery. If any such change causes an increase or decrease in the cost, or the time required for the processing of any part of the order, an equitable adjustment shall be made in the price or delivery schedule, or both, and the order shall be modified in writing accordingly.

CANCELLATION: Suspension or cancellation of orders may be made only upon our written approval and on terms that will indemnify us against all loss.

OVERTIME: It is anticipated that any order will be processed during regular working hours on regular working days. If for any reason the Purchaser requests Acopian to process the order, or any portion of it, outside of such regular working hours, any overtime or other additional expense occasioned thereby shall be billed to and paid by the Purchaser as an extra cost. Acopian reserves the right to decline to process the order outside regular working hours.

CUSTOMER DELAY OF WORK: If the performance of all or any part of the work is delayed or interrupted by Customer's failure to act within the time specified (or within a reasonable time if no time is specified) and such act is not expressed or implied by the order, an adjustment shall be made in the cost of performance of the order caused by such delay or interruption and the order modified in writing accordingly. Adjustment will also be made in the delivery or performance dates and any other contractual provisions affected by such delay or interruption.

GOVERNMENT SPECIFICATIONS: Pricing is based upon industrial-grade construction, marking, packing, and packaging. Exception is taken to any MIL specifications, and to any requirements for the use of special forms, documentation other than quoted, and Government Source Inspection. Acopian must decline to quote on any other basis.

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