ARTISAN®
TECHNOLOGY GROUP

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

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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
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Expert team | Trust guarantee | 100% satisfaction

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Find the *Acopian 24EB10E130* at our website: ***Click HERE***

Acopian Power Supplies

DC-DC Converters

Mini Encapsulated -with screw terminals

REGULATED

single & dual tracking outputs



- Shipped Within 3 Days
- One Year Warranty



Don't forget these facts about Acopian....

1. We ship within 3 Days (see our 3 Day Shipping Promise below).
2. Acopian power supplies last a *very long time*.
3. The Voltage Finder is the quickest way to find a power supply with the specs you need.
4. The Online System builder (www.acopian.com/SystemBuilder) is a convenient way to get your own custom Power System (and they ship within 9 Days).
5. You always talk to a real person when you call Acopian.
6. You can order your Acopian power supplies factory direct.
7. You can order your Acopian power supplies online.
8. All Acopian products are made in the USA.

Acopian

Acopian Technical Company • Easton, PA

1-800-523-9478 • www.acopian.com

Order Factory Direct VISA MasterCard American Express

Made in USA



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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).

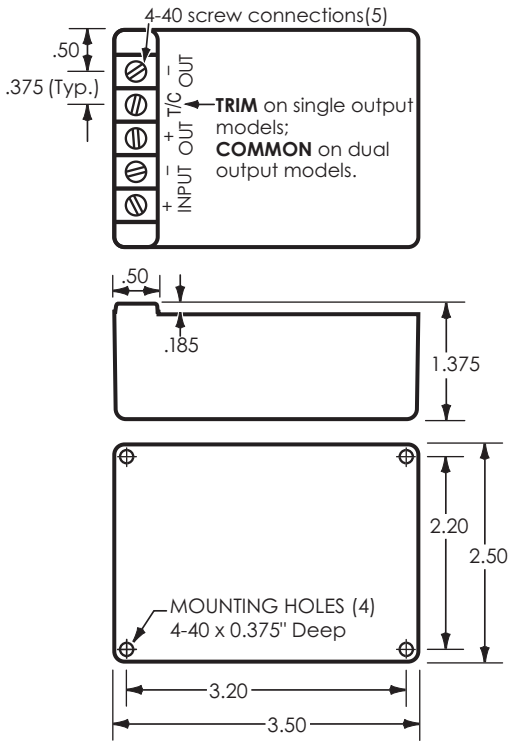
Ambient Operating Temperature: –20 to +71°C.

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.

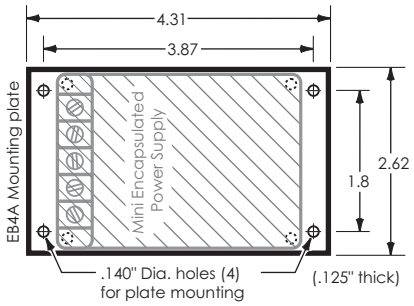


Case Size EBC-10
Approx. Weight: 14 oz.

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

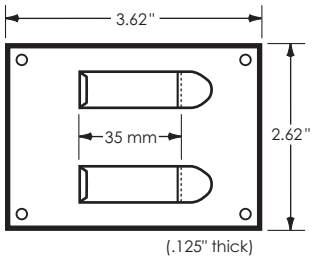
FOR WALL MOUNTING



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 . . . . . $ 10

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 $15

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	150	5EB5E250
5	6	2.00	1.80	1.60	.15	.02	150	5EB6E200
5	8	1.50	1.35	1.20	.10	.02	150	5EB8E150
5	9	1.40	1.25	1.10	.10	.02	150	5EB9E140
5	10	1.30	1.15	1.00	.10	.02	150	5EB10E130
5	12	1.20	1.10	1.00	.05	.02	150	5EB12E120
5	13	1.10	1.00	.90	.05	.02	150	5EB13E110
5	15	1.00	.90	.80	.05	.02	150	5EB15E100
5	18	.80	.70	.60	.05	.02	150	5EB18E80
5	20	.70	.60	.50	.05	.02	150	5EB20E70
5	24	.60	.55	.50	.05	.02	150	5EB24E60
5	28	.50	.45	.40	.05	.02	150	5EB28E50
12	5	2.50	2.25	2.00	.15	.02	150	12EB5E250
12	6	2.00	1.80	1.60	.15	.02	150	12EB6E200
12	8	1.50	1.35	1.20	.10	.02	150	12EB8E150
12	9	1.40	1.25	1.10	.10	.02	150	12EB9E140
12	10	1.30	1.15	1.00	.10	.02	150	12EB10E130
12	12	1.20	1.10	1.00	.05	.02	150	12EB12E120
12	13	1.10	1.00	.90	.05	.02	150	12EB13E110
12	15	1.00	.90	.80	.05	.02	150	12EB15E100
12	18	.80	.70	.60	.05	.02	150	12EB18E80
12	20	.70	.60	.50	.05	.02	150	12EB20E70
12	24	.60	.55	.50	.05	.02	150	12EB24E60
12	28	.50	.45	.40	.05	.02	150	12EB28E50
15	5	2.50	2.25	2.00	.15	.02	150	15EB5E250
15	6	2.00	1.80	1.60	.15	.02	150	15EB6E200
15	8	1.50	1.35	1.20	.10	.02	150	15EB8E150
15	9	1.40	1.25	1.10	.10	.02	150	15EB9E140
15	10	1.30	1.15	1.00	.10	.02	150	15EB10E130
15	12	1.20	1.10	1.00	.05	.02	150	15EB12E120
15	13	1.10	1.00	.90	.05	.02	150	15EB13E110
15	15	1.00	.90	.80	.05	.02	150	15EB15E100
15	18	.80	.70	.60	.05	.02	150	15EB18E80
15	20	.70	.60	.50	.05	.02	150	15EB20E70
15	24	.60	.55	.50	.05	.02	150	15EB24E60
15	28	.50	.45	.40	.05	.02	150	15EB28E50
24	5	2.50	2.25	2.00	.15	.02	150	24EB5E250
24	6	2.00	1.80	1.60	.15	.02	150	24EB6E200
24	8	1.50	1.35	1.20	.10	.02	150	24EB8E150
24	9	1.40	1.25	1.10	.10	.02	150	24EB9E140
24	10	1.30	1.15	1.00	.10	.02	150	24EB10E130
24	12	1.20	1.10	1.00	.05	.02	150	24EB12E120
24	13	1.10	1.00	.90	.05	.02	150	24EB13E110
24	15	1.00	.90	.80	.05	.02	150	24EB15E100
24	18	.80	.70	.60	.05	.02	150	24EB18E80
24	20	.70	.60	.50	.05	.02	150	24EB20E70
24	24	.60	.55	.50	.05	.02	150	24EB24E60
24	28	.50	.45	.40	.05	.02	150	24EB28E50
28	5	2.50	2.25	2.00	.15	.02	150	28EB5E250
28	6	2.00	1.80	1.60	.15	.02	150	28EB6E200
28	8	1.50	1.35	1.20	.10	.02	150	28EB8E150
28	9	1.40	1.25	1.10	.10	.02	150	28EB9E140
28	10	1.30	1.15	1.00	.10	.02	150	28EB10E130
28	12	1.20	1.10	1.00	.05	.02	150	28EB12E120
28	13	1.10	1.00	.90	.05	.02	150	28EB13E110
28	15	1.00	.90	.80	.05	.02	150	28EB15E100
28	18	.80	.70	.60	.05	.02	150	28EB18E80
28	20	.70	.60	.50	.05	.02	150	28EB20E70
28	24	.60	.55	.50	.05	.02	150	28EB24E60
28	28	.50	.45	.40	.05	.02	150	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	155	5EB10D60
5	±12	.60	.55	.50	.05	.02	155	5EB12D60
5	±15	.50	.45	.40	.05	.02	155	5EB15D50
5	±18	.40	.35	.30	.05	.02	155	5EB18D40
12	±10	.60	.55	.50	.05	.02	155	12EB10D60
12	±12	.60	.55	.50	.05	.02	155	12EB12D60
12	±15	.50	.45	.40	.05	.02	155	12EB15D50
12	±18	.40	.35	.30	.05	.02	155	12EB18D40
15	±10	.60	.55	.50	.05	.02	155	15EB10D60
15	±12	.60	.55	.50	.05	.02	155	15EB12D60
15	±15	.50	.45	.40	.05	.02	155	15EB15D50
15	±18	.40	.35	.30	.05	.02	155	15EB18D40
24	±10	.60	.55	.50	.05	.02	155	24EB10D60
24	±12	.60	.55	.50	.05	.02	155	24EB12D60
24	±15	.50	.45	.40	.05	.02	155	24EB15D50
24	±18	.40	.35	.30	.05	.02	155	24EB18D40
28	±10	.60	.55	.50	.05	.02	155	28EB10D60
28	±12	.60	.55	.50	.05	.02	155	28EB12D60
28	±15	.50	.45	.40	.05	.02	155	28EB15D50
28	±18	.40	.35	.30	.05	.02	155	28EB18D40

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About Acopian's 3 Day Shipment Guarantee:

In 1964, Acopian initiated its "3 Day Shipping Guarantee." Since then our product offerings have expanded to include many more lines of power supplies that ship within 3 Days as well as others that ship within 6 or 9 Days. These guarantees apply to every model in the Acopian catalog.

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

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.

Has Acopian ever failed to meet this promise?
Never.

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.

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.)

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.

If you require shipment even earlier than our standard promise, just let us know, we can usually ship sooner. We welcome the opportunity to work with you.

ACOPIAN...

...answers your phone call with a live salesperson
No automated menus. The person who answers your call will courteously and promptly answer your questions, quote price and delivery, expedite your urgent requirements, and offer you immediate access to our engineers.
Call toll free 800-523-9478.

…can customize power supplies for you
If a standard power supply does not meet all of your requirements, speak with one of our engineers. We can often modify the specifications, ratings and configuration of a supply. We can also combine several power supplies into a Multiple Output Power System with the operating features you specify (such as meters and switches) and ship it within 9 Days!

…has a 5-year warranty
This is typical: One of our customers sent us an old power supply with a note indicating that the supply had been in continuous use since 1972 (33 years!), but he had recently noticed that the output voltage was low. We found that the capacitors had dried up, replaced them and returned the supply to the customer, who thanked us and said he intends to keep using it. We focus on making power supplies that will last a long time. There are power supplies that cost less than ours, or that are smaller than ours, but you won't find any that last longer than ours. All too often, low-priced supplies are densely packed, run hot, have short lifetimes and short warranties. All Acopian metal-cased power products have a 5-year warranty, but you can expect them to last a lot longer.

Purchase Acopian... 3-day shipment, long lasting power supplies, and unsurpassed customer service.

"In my business, Acopian is referred to as bulletproof. It never fails and lasts forever."
- Steve Andrews, President
Technical Options, Inc.

"If Acopian made automobiles, I'd buy one without question."
- David A. Price, Research Technologist
Georgia Tech Research Institute

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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.

APPLICATIONS ASSISTANCE: ***Questions regarding the specifications, features, and use of any Acopian product should be directed to the Applications Engineering Department. A staff of power supply specialists will be pleased to assist you.***

www.acopian.com *- Online Ordering and Instant Quotes Online!*

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

Acopian
Since 1957

Acopian Technical Company
P.O. Box 638, Easton, PA 18044 • Phone: (610) 258-5441 • FAX: (610) 258-2842
Call toll free: (800) 523-9478 ***(International: Country Code 01)***

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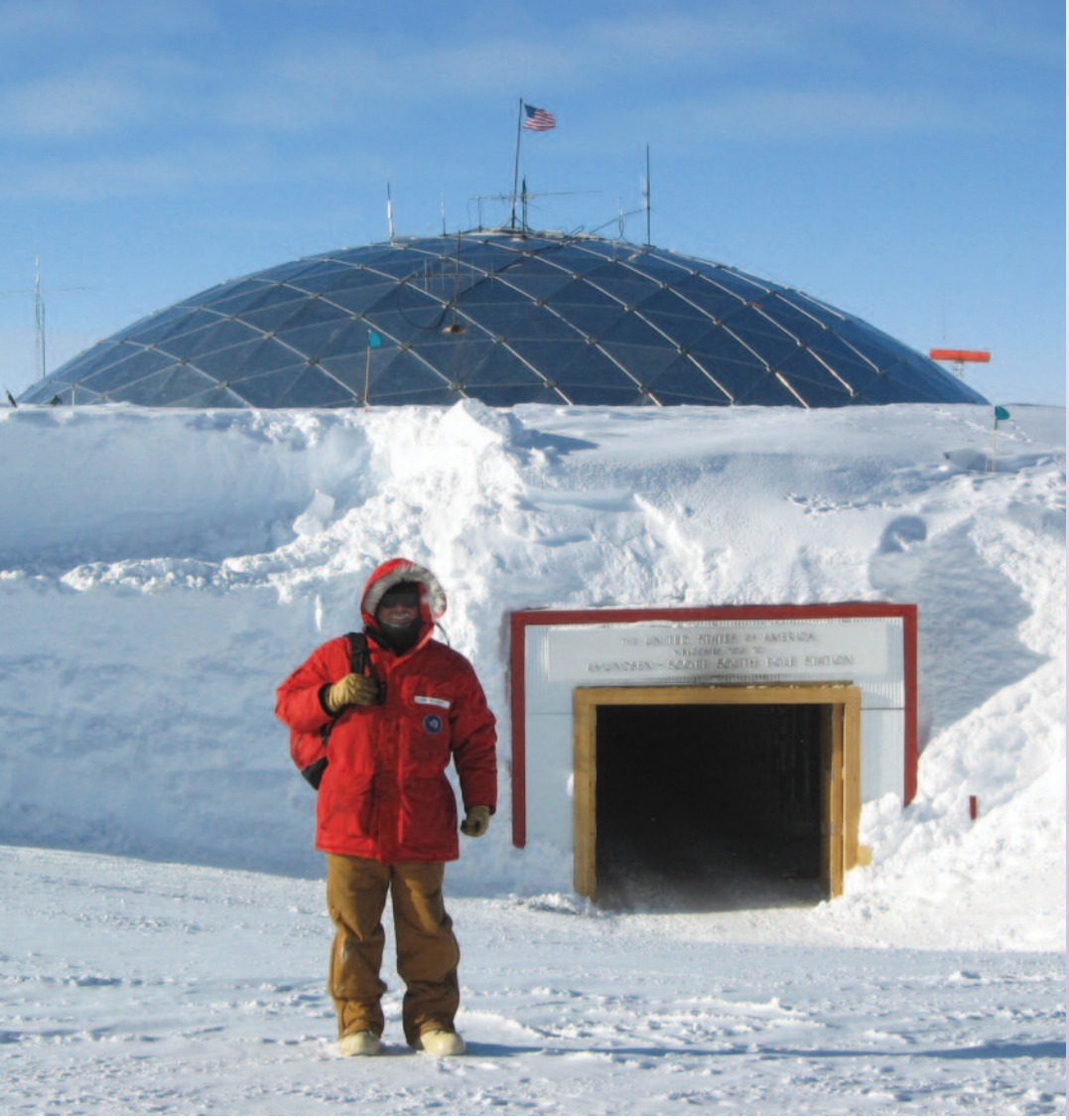


PHOTO COURTESY OF THE ICECUBE PROJECT

*"**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.



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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

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