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Acopian Power Supplies

Gold Box

SWITCHING REGULATED

AC-DC single & wide adjust output

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



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

- Fast Shipping? Acopian invented it! For over half a century, Acopian has built and shipped millions of power supplies within 3-DAYS after receipt of order. And we still do today! View our 3-DAY Shipping Promise: www.acopian.com/3dayship.html
- You ALWAYS talk to a real person when you call Acopian.
- Acopian power supplies last a *very long time*!
- You can email 3day@acopian.com anytime for 24/7 product support.
- The *Online System Builder* (www.acopian.com/SystemBuilder) is a convenient way to get your own custom power supply or power system (and most ship within 9 Days).
- You can order Acopian power supplies factory direct.
- ALL Acopian products are made in the USA.



Acopian POWER SUPPLIES

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Order Factory Direct

Made in USA

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SWITCHING REGULATED
AC-DC
single output & wide adjust output

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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).

Dielectric Withstand Voltage:
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 H3.

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. 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.) %**	Model	Case Size
5-15	23	16	15	100	76	W515MT23	WM6
5-15	36	25	15	100	76	W515MT36	WM9
5-15	54	38	15	100	76	W515GT54	WG7
5-30	13	9	25	150	81	W530MT13	WM6
5-30	19	13	25	150	81	W530MT19	WM9
5-30	30	20	25	150	81	W530GT30	WG7
15-50	8	5	25	150	82	W1550MT8	WM6
15-50	12	8.5	25	150	82	W1550MT12	WM9
15-50	18	12	25	150	82	W1550GT18	WG7

** At maximum output voltage

*or 5 mV, whichever is greater

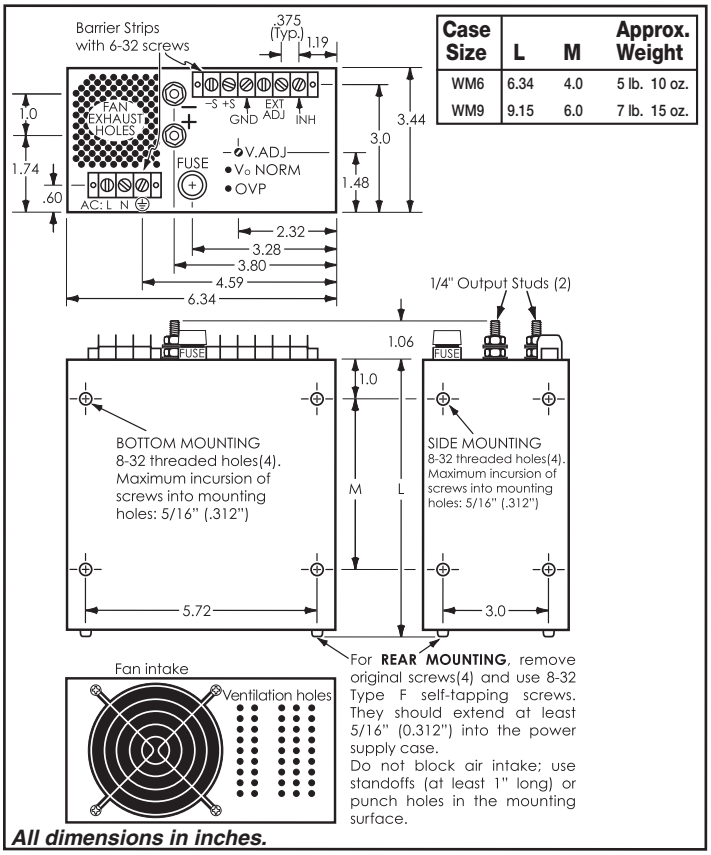
Online Ordering and Instant Quotes for ALL Acopian power supplies at ***www.acopian.com***
131 Loomis Street, Easton, PA 18045 • Phone: (610) 258-5441 • FAX: (610) 258-2842

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.) %	Model	Case Size
3.3	.25	65	45	13	80	65	W3.3MT65	WM6
3.3	.25	100	70	13	80	65	W3.3MT100	WM9
3.3	.25	150	105	13	80	65	W3.3GT150	WG7
5	.25	65	45	13	80	70	W5MT65	WM6
5	.25	100	70	13	80	70	W5MT100	WM9
5	.25	150	105	13	80	70	W5GT150	WG7
6	.25	56	39	13	80	71	W6MT56	WM6
6	.25	86	60	13	80	71	W6MT86	WM9
8	.25	41	28	15	100	73	W8MT41	WM6
8	.25	63	44	15	100	73	W8MT63	WM9
9	.25	37	26	15	100	73	W9MT37	WM6
9	.25	57	40	15	100	73	W9MT57	WM9
10	.5	34	24	15	100	74	W10MT34	WM6
10	.5	52	36	15	100	74	W10MT52	WM9
12	.5	29	20	15	100	76	W12MT29	WM6
12	.5	45	32	15	100	76	W12MT45	WM9
12	.5	68	47	15	100	76	W12GT68	WG7
12	.5	95	66	15	100	76	W12GT95	WG7
15	.5	23	16	15	100	76	W15MT23	WM6
15	.5	36	25	15	100	76	W15MT36	WM9
15	.5	54	38	15	100	76	W15GT54	WG7
15	.5	78	54	15	100	76	W15GT78	WG7
18	.5	20	14	15	100	78	W18MT20	WM6
18	.5	31	22	15	100	78	W18MT31	WM9
20	1	19	13	15	100	79	W20MT19	WM6
20	1	28	19	15	100	79	W20MT28	WM9
24	1	16	11	15	100	81	W24MT16	WM6
24	1	25	18	15	100	81	W24MT25	WM9
24	1	38	26	15	100	81	W24GT38	WG7
24	1	50	35	15	100	81	W24GT50	WG7
28	1	14	10	15	100	81	W28MT14	WM6
28	1	21	15	15	100	81	W28MT21	WM9
28	1	32	22	15	100	81	W28GT32	WG7
28	1	42	29	15	100	81	W28GT42	WG7
30	1	13	9	25	150	81	W30MT13	WM6
30	1	19	13	25	150	81	W30MT19	WM9
36	1	10	7	25	150	81	W36MT10	WM6
36	1	15	11	25	150	81	W36MT15	WM9

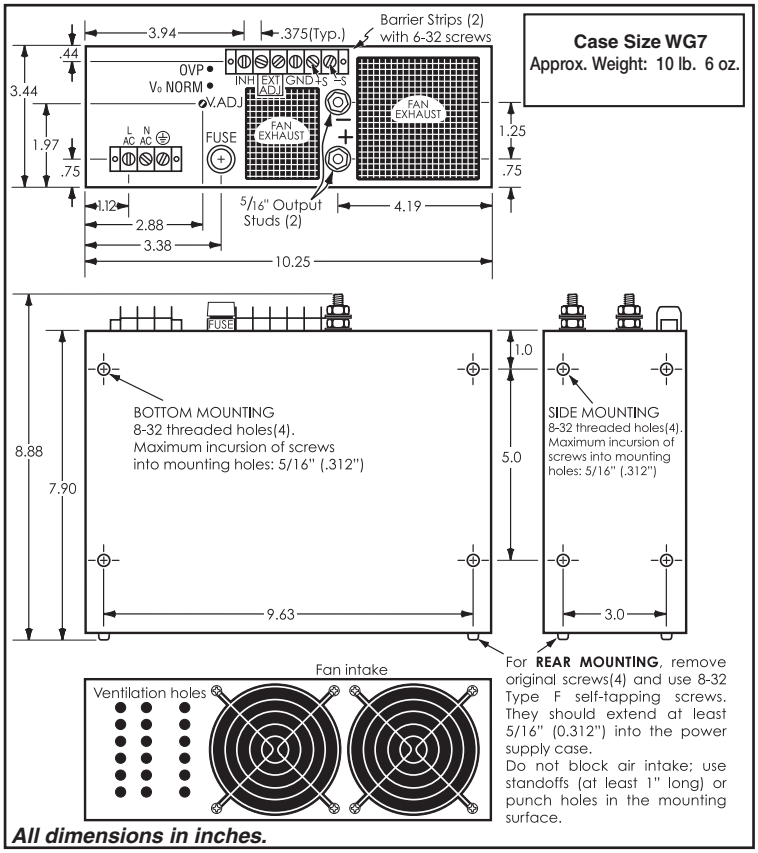
Nominal Output Voltage	Adjust Range ± V	Output Current Amps. at 40°C	Output Current Amps. at 71°C	Ripple mV (@ 25 MHz BW) RMS	Ripple mV (@ 25 MHz BW) P-P	Effic. (Typ.) %	Model	Case Size
40	1	9	6	25	150	82	W40MT9	WM6
40	1	14	10	25	150	82	W40MT14	WM9
48	1	8	5	25	150	82	W48MT8	WM6
48	1	12	8.5	25	150	82	W48MT12	WM9
48	1	19	13	25	150	82	W48GT19	WG7
48	1	25	17	25	150	82	W48GT25	WG7
50*	1	7.7	5.4	50	150	80	W50MT7.7	WM6
50*	1	12	8.4	50	150	80	W50MT12	WM9
50*	1	18.2	12.8	50	150	80	W50GT18.2	WG7
55*	1	7	4.9	50	150	80	W55MT7	WM6
55*	1	10.9	7.6	50	150	80	W55MT10.9	WM9
55*	1	16.6	11.6	50	150	80	W55GT16.6	WG7
60*	1	6.4	4.5	50	150	80	W60MT6.4	WM6
60*	1	10	7.0	50	150	80	W60MT10	WM9
60*	1	15.2	10.6	50	150	80	W60GT15.2	WG7
70*	1	5.5	3.8	67	250	80	W70MT5.5	WM6
70*	1	8.6	6	67	250	80	W70MT8.6	WM9
70*	1	13	9.1	67	250	80	W70GT13	WG7
75*	1	5.1	3.6	67	250	80	W75MT5.1	WM6
75*	1	8	5.6	67	250	80	W75MT8	WM9
75*	1	12.2	8.5	67	250	80	W75GT12.2	WG7
80*	1	4.8	3.4	67	250	80	W80MT4.8	WM6
80*	1	7.5	5.3	67	250	80	W80MT7.5	WM9
80*	1	11.4	8	67	250	80	W80GT11.4	WG7
90*	1	4.3	3	100	250	80	W90MT4.3	WM6
90*	1	6.7	4.7	100	250	80	W90MT6.7	WM9
90*	1	10.1	7.1	100	250	80	W90GT10.1	WG7
100*	2	3.8	2.7	150	350	80	W100MT3.8	WM6
100*	2	6	4.2	150	350	80	W100MT6	WM9
100*	2	9.1	6.4	150	350	80	W100GT9.1	WG7
110*	2	3.5	2.4	150	350	80	W110MT3.5	WM6
110*	2	5.5	3.8	150	350	80	W110MT5.5	WM9
110*	2	8.3	5.8	150	350	80	W110GT8.3	WG7
120*	2	3.2	2.2	150	350	80	W120MT3.2	WM6
120*	2	5	3.5	150	350	80	W120MT5	WM9
120*	2	7.6	5.3	150	350	80	W120GT7.6	WG7
125*	2	3.1	2.2	150	350	80	W125MT3.1	WM6
125*	2	4.8	3.4	150	350	80	W125MT4.8	WM9
125*	2	7.3	5.1	150	350	80	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.

All dimensions in inches.

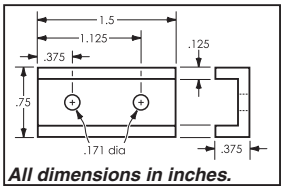


Case Size WG7
Approx. Weight: 10 lb. 6 oz.

All dimensions in inches.

WALL MOUNTING KITS

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.



All dimensions in inches.

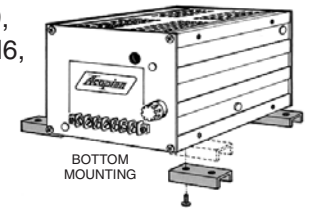
For 'Gold Box' and (modular) 'High Voltage' power supplies:

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, LM6A*, LM8A*, LM10A*, M6, M9, M13, RM6, RW6 TG5, TG6, TG9, TG13, TH11, WG7, WM6, WM9, Y3, Y5, Y6, YH11, YA

For rear mounting brackets horizontally on **LM cases only, use GBR Mounting Kit*



For 'Narrow Profile' power supplies:

NP6 Mounting Kit *(#6-32 mounting holes)*

Can be used on these case sizes:

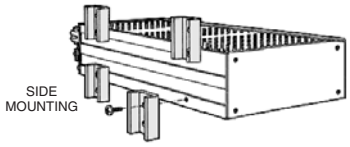
AMC, CN8T, DN6B, DN6A, DN8A, DN8, F6T, F8T, N8T, WL7, WL9, WN6A, WN6B, WN8, WN8A, WN8B, TN6T

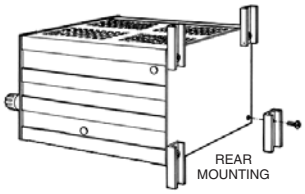
NP6L Mounting Kit *(#6-32 mounting holes)*

Can be used on these case sizes:

CN8H, N8H, TN8H

Model NP6L consists of two brackets 1.5" long as shown above, and two 2.5" long brackets (to extend beyond heat sink).





DIN RAIL MOUNTING KITS

CH35DIN Mounting Kit (Horizontal mounting)

Can be used on these case sizes: RM6, RW6

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				

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						

(GR35DIN can be used, but is not recommended on case sizes: G13, GT13, M13, TG13)

LR35DIN Mounting Kit (Rear mounting)
LV35DIN Mounting Kit (Vertical mounting)
LH35DIN Mounting Kit (Horizontal mounting)

Can be used on these case sizes: LM6A, LM8A, LM10A

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
					WN8B

NPR35DIN Mounting Kit (Rear mounting)

Can be used on these case sizes:

CN8H	F6T	N8H	TN6T
CN8T	F8T	N8T	TN8H

NPV35DIN Mounting Kit (Vertical mounting)

Can be used on these case sizes:

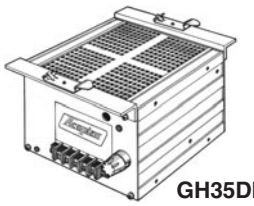
CN8H	DN6A	F6T	N8H	TN6T	WN6A
CN8T	DN6B	F8T	N8T	TN8H	WN6B
	DN8				WN8
	DN8A				WN8A
					WN8B

WH35DIN Mounting Kit (Horizontal mounting)

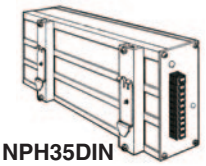
Can be used on these case sizes: WM6, WM9

WL35DIN Mounting Kit (Vertical mounting)
WLH35DIN Mounting Kit (Horizontal mounting)

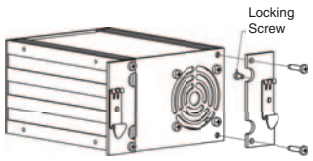
Can be used on these case sizes: WL7, WL9


GH35DIN

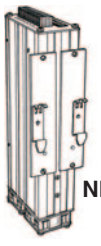

LH35DIN


NPH35DIN

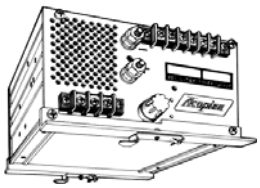

GR35DIN



LR35DIN


NPV35DIN


WLH35DIN


WH35DIN


NPR35DIN

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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 or Melbourne, FL, 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. ('EXW Factory' if outside the 50 United States.) All prices and specifications are subject to change without notice.

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, FedEx, DHL (international orders) 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 to certain U.S. territories requiring customs forms.)

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. This option requires two additional days and is not available on High Voltage, Mini Encapsulated, Rack Mounting, and Gold Box Switching models.

TAGGING: 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.***

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