



Narrow Profile

SWITCHING REGULATED (to 288 watts)

(Power Factor Correction and Universal Input)

DC output (accepts either AC or DC input)

- Shipped Within 3 Days
- UL60950, UL508, CE Certified
- Five Year Warranty



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- 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
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- 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.
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(Power Factor Correction and Universal Input)**

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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: $\pm 0.05\%$ or 5 mV, whichever is greater.

Load: $\pm 0.05\%$ or 5 mV, whichever is greater.

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: $\pm 0.1\%$ typical over 8 hours, after 30 minute warmup.

Temperature Coefficient: $\pm 0.02\%/^{\circ}\text{C}$ (Typical).

Holdup Time: 16 mS minimum.

Transient Response: 300 μS to return to $\pm 1\%$ of output setting. Maximum of $\pm 3\%$ 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 $^{\circ}\text{C}$.

Storage Temperature: -40 to +85 $^{\circ}\text{C}$.

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

Case size WN8B: convection cooled.

Switching Frequency: 100 kHz (Typical).

Dielectric Withstand Voltage Isolation

Input to output:	4242 Vdc	300 Vdc
Input to case:	2121 Vdc	300 Vdc
Output to case:	750 Vdc	300 Vdc

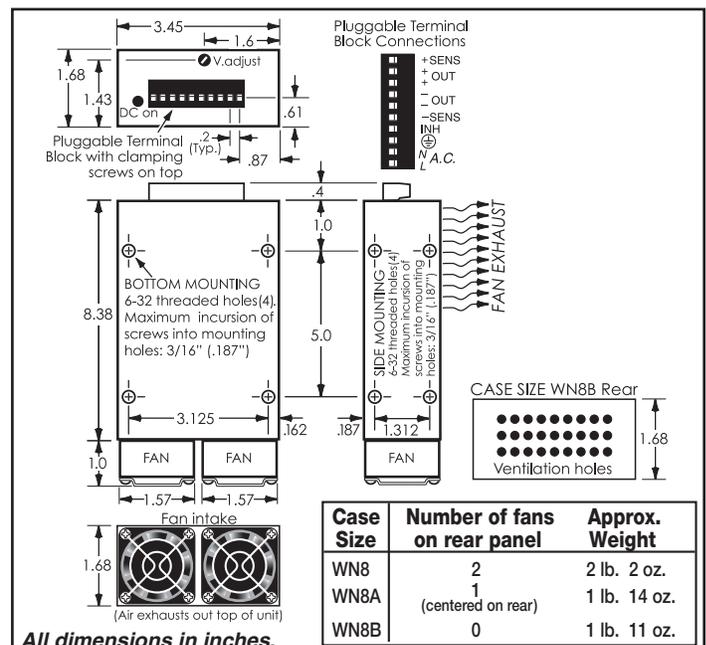
Internal Failure Protection: Provided by internal fuse.

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 H3.

Narrow Profile SWITCHING REGULATED (to 288 watts)

Nominal Output Voltage	Adjust Range ±V	Output Current Amps. at		Ripple mV (@ 25 MHz BW)		Effic. (Typ.) %	Model	Case Size
		40°C	71°C	RMS	P-P			
3.3	.5	12	8.4	10	50	66	W3.3NT1200	WN8B
3.3	.5	18.5	12.9	10	50	66	W3.3NT1850	WN8A
3.3	.5	25	17.5	10	50	66	W3.3NT2500	WN8
5	.5	12	8.4	10	50	69	W5NT1200	WN8B
5	.5	18.5	12.9	10	50	69	W5NT1850	WN8A
5	.5	25	17.5	10	50	69	W5NT2500	WN8
6	.5	10	7	10	50	70	W6NT1000	WN8B
6	.5	15.4	10.7	10	50	70	W6NT1540	WN8A
6	.5	24	16.8	10	50	70	W6NT2400	WN8
7	.5	8.5	5.9	10	50	70	W7NT850	WN8B
7	.5	15	10.5	10	50	70	W7NT1500	WN8A
7	.5	23	16.1	10	50	70	W7NT2300	WN8
8	.5	7.5	5.2	15	100	72	W8NT750	WN8B
8	.5	14.7	10.3	15	100	72	W8NT1470	WN8A
8	.5	23	16.1	15	100	72	W8NT2300	WN8
9	.5	6.6	4.6	15	100	72	W9NT660	WN8B
9	.5	14.4	10	15	100	72	W9NT1440	WN8A
9	.5	23	16.1	15	100	72	W9NT2300	WN8
10	.5	6	4.2	15	100	73	W10NT600	WN8B
10	.5	14.1	9.8	15	100	73	W10NT1410	WN8A
10	.5	22	15.4	15	100	73	W10NT2200	WN8
12	.5	5.8	4	15	100	75	W12NT580	WN8B
12	.5	13.7	9.6	15	100	75	W12NT1370	WN8A
12	.5	22	15.4	15	100	75	W12NT2200	WN8
13	.5	5.3	3.7	15	100	75	W13NT530	WN8B
13	.5	12.3	8.6	15	100	75	W13NT1230	WN8A
13	.5	20	14	15	100	75	W13NT2000	WN8
14	.5	4.9	3.4	15	100	75	W14NT490	WN8B
14	.5	11.7	8.2	15	100	75	W14NT1170	WN8A
14	.5	19	13.3	15	100	75	W14NT1900	WN8
15	.5	4.7	3.3	15	100	75	W15NT470	WN8B
15	.5	11.1	7.8	15	100	75	W15NT1110	WN8A
15	.5	18	12.6	15	100	75	W15NT1800	WN8
16	.5	4.4	3	15	100	75	W16NT440	WN8B
16	.5	10.2	7.1	15	100	75	W16NT1020	WN8A
16	.5	16.5	11.5	15	100	75	W16NT1650	WN8
18	.5	4	2.8	15	100	77	W18NT400	WN8B
18	.5	9.2	6.4	15	100	77	W18NT920	WN8A
18	.5	15	10.5	15	100	77	W18NT1500	WN8
20	.5	3.7	2.6	15	100	78	W20NT370	WN8B
20	.5	8.6	6	15	100	78	W20NT860	WN8A
20	.5	14	9.8	15	100	78	W20NT1400	WN8
22	.5	3.4	2.4	15	100	78	W22NT340	WN8B
22	.5	8	5.6	15	100	78	W22NT800	WN8A
22	.5	13	9.1	15	100	78	W22NT1300	WN8
24	.5	3.2	2.2	15	100	80	W24NT320	WN8B
24	.5	7.5	5.3	15	100	80	W24NT750	WN8A
24	.5	12	8.4	15	100	80	W24NT1200	WN8
25	.5	3	2.1	15	100	80	W25NT300	WN8B
25	.5	7.2	5	15	100	80	W25NT720	WN8A
25	.5	11.2	7.8	15	100	80	W25NT1120	WN8
26	.5	2.8	2	15	100	80	W26NT280	WN8B
26	.5	6.9	4.8	15	100	80	W26NT690	WN8A
26	.5	10.6	7.4	15	100	80	W26NT1060	WN8
28	.5	2.7	1.9	15	100	80	W28NT270	WN8B
28	.5	6.2	4.3	15	100	80	W28NT620	WN8A
28	.5	10	7	15	100	80	W28NT1000	WN8
30	.5	2.4	1.7	25	150	80	W30NT240	WN8B
30	.5	5.6	3.9	25	150	80	W30NT560	WN8A
30	.5	9	6.3	25	150	80	W30NT900	WN8
32	1	2.3	1.6	25	150	80	W32NT230	WN8B
32	1	5.4	3.7	25	150	80	W32NT540	WN8A
32	1	8.6	6	25	150	80	W32NT860	WN8
34	1	2.2	1.5	25	150	80	W34NT220	WN8B
34	1	5.2	3.6	25	150	80	W34NT520	WN8A
34	1	8.3	5.8	25	150	80	W34NT830	WN8
36	1	2.1	1.4	25	150	80	W36NT210	WN8B
36	1	5	3.5	25	150	80	W36NT500	WN8A
36	1	8	5.6	25	150	80	W36NT800	WN8
38	1	2	1.4	25	150	80	W38NT200	WN8B
38	1	4.7	3.3	25	150	80	W38NT470	WN8A
38	1	7.5	5.2	25	150	80	W38NT750	WN8

Nominal Output Voltage	Adjust Range ±V	Output Current Amps. at		Ripple mV (@ 25 MHz BW)		Effic. (Typ.) %	Model	Case Size
		40°C	71°C	RMS	P-P			
40	1	1.9	1.3	25	180	81	W40NT190	WN8B
40	1	4.3	3	25	150	81	W40NT430	WN8A
40	1	7	4.9	25	150	81	W40NT700	WN8
42	1	1.8	1.2	25	150	81	W42NT180	WN8B
42	1	4.1	2.8	25	150	81	W42NT410	WN8A
42	1	6.8	4.7	25	150	81	W42NT680	WN8
45	1	1.7	1.2	25	150	81	W45NT170	WN8B
45	1	3.9	2.7	25	150	81	W45NT390	WN8A
45	1	6.4	4.4	25	150	81	W45NT640	WN8
48	1	1.6	1.1	25	150	81	W48NT160	WN8B
48	1	3.7	2.6	25	150	81	W48NT370	WN8A
48	1	6	4.2	25	150	81	W48NT600	WN8
50	1	1.5	1	50	150	80	W50NT150	WN8B
50	1	3.3	2.3	50	150	80	W50NT330	WN8A
50	1	5	3.5	50	150	80	W50NT500	WN8
55	1	1.3	0.91	50	150	80	W55NT130	WN8B
55	1	3	2.1	50	150	80	W55NT300	WN8A
55	1	4.5	3.2	50	150	80	W55NT450	WN8
60	1	1.2	0.84	50	150	80	W60NT120	WN8B
60	1	2.8	1.9	50	150	80	W60NT280	WN8A
60	1	4.2	2.9	50	150	80	W60NT420	WN8
70	1	1	0.7	67	200	80	W70NT100	WN8B
70	1	2.4	1.7	67	200	80	W70NT240	WN8A
70	1	3.6	2.5	67	200	80	W70NT360	WN8
75	1	1	0.7	67	200	80	W75NT100	WN8B
75	1	2.2	1.5	67	200	80	W75NT220	WN8A
75	1	3.3	2.3	67	200	80	W75NT330	WN8
80	1	0.9	0.63	67	200	80	W80NT90	WN8B
80	1	2.1	1.4	67	200	80	W80NT210	WN8A
80	1	3.1	2.2	67	200	80	W80NT310	WN8
90	1	0.8	0.55	100	300	80	W90NT80	WN8B
90	1	1.8	1.3	100	300	80	W90NT180	WN8A
90	1	2.8	1.9	100	300	80	W90NT280	WN8
100	1	0.75	0.52	150	450	80	W100NT75	WN8B
100	1	1.7	1.2	150	450	80	W100NT170	WN8A
100	1	2.5	1.8	150	450	80	W100NT250	WN8
110	1	0.65	0.45	150	450	80	W110NT65	WN8B
110	1	1.5	1.1	150	450	80	W110NT150	WN8A
110	1	2.3	1.6	150	450	80	W110NT230	WN8
120	1	0.6	0.42	150	450	80	W120NT60	WN8B
120	1	1.4	1	150	450	80	W120NT140	WN8A
120	1	2.1	1.5	150	450	80	W120NT210	WN8
125	1	0.6	0.42	150	450	80	W125NT60	WN8B
125	1	1.3	0.9	150	450	80	W125NT130	WN8A
125	1	2	1.4	150	450	80	W125NT200	WN8



SWITCHING REGULATED AC-DC

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.

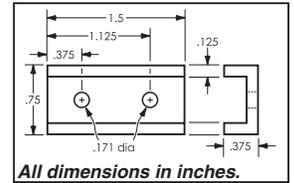
For 'Gold Box' and (modular) 'High Voltage' power supplies:

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:

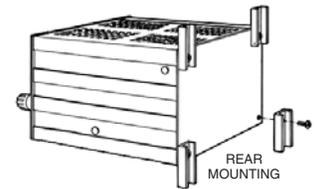
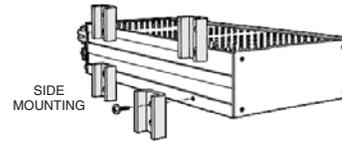
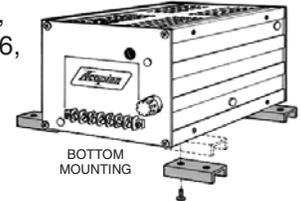
AMC, CN8T, DN6B, DN6A, DN8A, DN8, F6T, F8T, N8T, WL7, WL9, WN6A, WN6B, WN8, WN8A, WN8B, TN6T

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

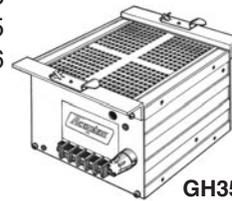
WH35DIN Mounting Kit (Horizontal mounting)

Can be used on these case sizes: WM6, WM9

WL35DIN Mounting Kit (Vertical mounting)

WLH35DIN Mounting Kit (Horizontal mounting)

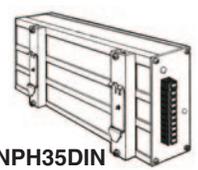
Can be used on these case sizes: WL7, WL9



GH35DIN



LH35DIN



NPH35DIN



GR35DIN



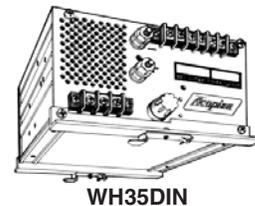
LR35DIN



NPV35DIN



WLH35DIN



WH35DIN



NPR35DIN

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, procurement, 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.*

ACOPIAN IS AN ISO 9001 CERTIFIED COMPANY