



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



Don't forget these facts about Acopian

1. We ship within 3 Days (see our 3 Day Shipping Promise)
2. Acopian Power Supplies last a long time.
3. The Voltage Finder (www.voltagefinder.com) 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 online.



Acopian Technical Company
Easton, PA

1-800-523-9478 • www.acopian.com

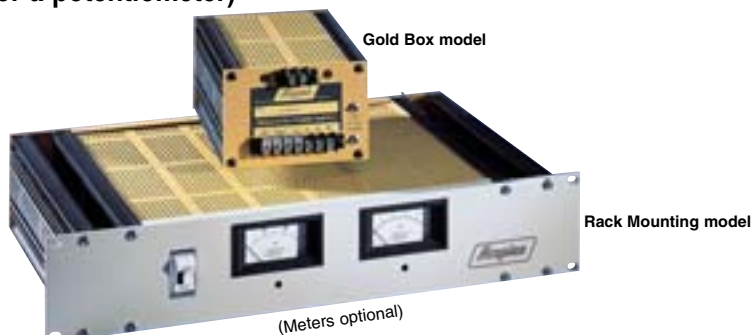
Gold Box & Rack Mounting WIDE ADJUST OUTPUT

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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: $\pm 0.005\%$ or 2 mV, whichever is greater.
Load Regulation: $\pm 0.005\%$ 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 78.

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 \$45.00 to price.

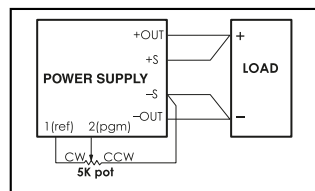
Voltmeter (Rack Mounting models): Add suffix "F" to model number and \$45.00 to price.

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

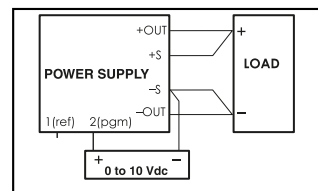
Front Panel Controls (Rack Mounting models): For voltage controls (coarse and fine) mounted on the front panel, instead of the standard screwdriver-slot adjustments at the rear, add suffix "P" to the model number and \$25.00 to price.

GOLD BOX MODELS

Output Voltage Range	Output Current Amps. at			Case Size	Model	Price(\$)
	40°C	55°C	71°C			
0-6	1.2	1.2	1.2	M6	Y06MX120	205
0-6	2.0	2.0	2.0	M6	Y06MX200	225
0-6	3.0	2.5	2.0	M6	Y06MX300	255
0-6	5.0	4.0	3.0	M9	Y06MX500	300
0-6	8.0	7.0	6.0	M13	Y06MX800	340
0-6	12.0	10.0	7.0	H11	Y06HX1200	425
0-6	16.0	13.0	10.0	H16	Y06HX1600	500
0-15	1.0	1.0	1.0	M6	Y015MX100	195
0-15	2.0	1.6	1.2	M6	Y015MX200	245
0-15	3.0	2.4	1.8	M9	Y015MX300	300
0-15	5.0	4.0	2.5	M13	Y015MX500	340
0-15	8.0	6.0	4.0	H11	Y015HX800	440
0-15	10.0	8.0	6.0	H16	Y015HX1000	500
0-30	.50	.50	.50	M6	Y030MX50	215
0-30	1.0	1.0	1.0	M6	Y030MX100	245
0-30	1.6	1.4	1.2	M9	Y030MX160	285
0-30	2.5	2.0	1.5	M13	Y030MX250	335
0-30	4.0	3.0	2.0	H11	Y030HX400	450
0-30	5.0	4.0	3.0	H16	Y030HX500	515
0-50	.35	.34	.33	M6	Y050MX35	235
0-50	.60	.50	.40	M6	Y050MX60	285
0-50	.85	.75	.65	M9	Y050MX85	325
0-50	1.2	.96	.72	M13	Y050MX120	390
0-50	2.4	1.9	1.4	H11	Y050HX240	505
0-50	3.0	2.4	1.8	H16	Y050HX300	585
0-100	.10	.09	.08	M6	Y0100MX10	285
0-100	.25	.20	.15	M6	Y0100MX25	325
0-100	.45	.36	.27	M9	Y0100MX45	380
0-100	.60	.48	.36	M13	Y0100MX60	435
0-100	1.2	.96	.72	H11	Y0100HX120	550
0-100	1.5	1.2	.90	H16	Y0100HX150	625



Programming with a Potentiometer

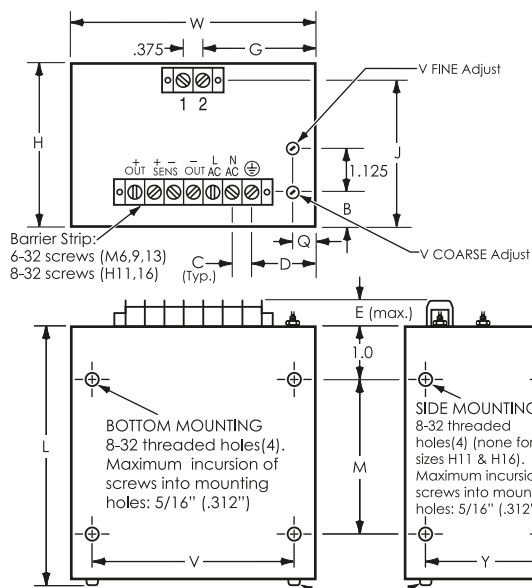


Programming with a Control Voltage

RACK MOUNTING MODELS

Output Voltage Range	Output Current Amps. at			Case Size	Model	Price(\$)
	40°C	55°C	71°C			
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

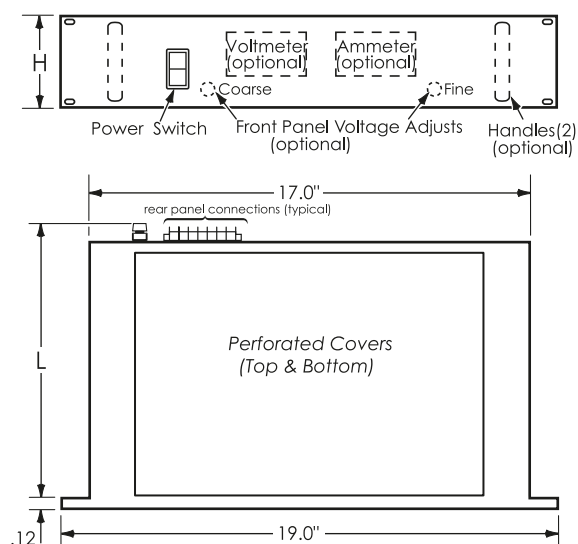
Gold Box



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.

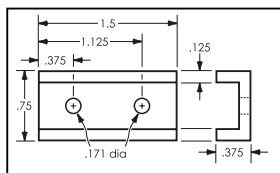
Case Size	L	W	H	M	V	Y	E	Q	B	C	D	G	J	Approx. Weight
M6	6.59	5.12	3.44	4.0	4.5	3.0	.58	.5	.75	.375	1.44	2.37	3.09	5 lb. 10 oz.
M9	9.25	5.12	3.44	6.0	4.5	3.0	.58	.5	.75	.375	1.44	2.37	3.09	6 lb. 7 oz.
M13	13.25	5.12	3.44	10.0	4.5	3.0	.58	.5	.75	.375	1.44	2.37	3.09	8 lb. 8 oz.
H11	11.25	7.37	5.12	8.0	6.75	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



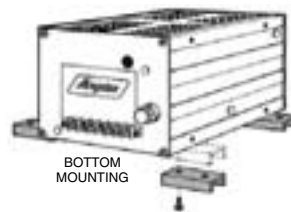
Case Size	H	L	Approx. Weight
3P11	3 1/2"	10 7/8"	16 lb.
3P17	3 1/2"	16 13/16"	26 lb.
5P12	5 1/4"	11 15/16"	20 lb.
5P17	5 1/4"	16 13/16"	30 lb.





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:

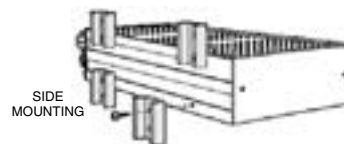
AMC, CN8T, DN6B, DN6A, DN8A, DN8, F6T, F8T, N8T, TN6T, WN6A, WN6B, WN8, WN8A

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



NPV35DIN Mounting Kit (Vertical mounting)

Can be used on these case sizes:

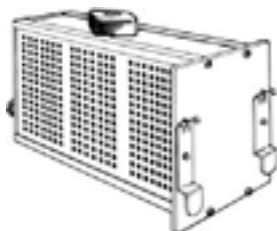
CN8H	DN6A	F6T	N8H	TN6T	WN6A
CN8T	DN6B	F8T	N8T	TN8H	WN6B
	DN8				WN8
	DN8A				WN8A



NPR35DIN Mounting Kit (Rear mounting)

Can be used on these case sizes:

CN8H	F6T	N8H	TN6T
CN8T	F8T	N8T	TN8H



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						

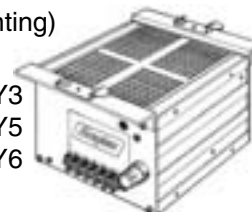
(Can be used, but not recommended on case sizes: G13, GT13, M13, TG13)



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				



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



Acopian

... can expedite your order, if 3 DAYS isn't fast enough

In 1964 Acopian initiated its "3 Day Shipping Guarantee"(see below). 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.

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.

About Acopian's 3 Day Shipment Guarantee:

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 our 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.



The complete Acopian catalog is also available on the Internet at www.acopian.com
P.O. Box 638, Easton, PA 18044 • Phone: (610) 258-5441 • FAX: (610) 258-2842

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 expedite shipment for you

If you require a power supply shipment earlier than our standard 3 or 9 Day Promise, we can usually ship sooner. We welcome the opportunity to work with you.

...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

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... long lasting power supplies and unsurpassed customer service



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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 and fans, 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 are 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, 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 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, Switching, Mini Encapsulated and Rack Mounting 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.*

At **www.acopian.com** you will find: This complete catalog in an easy-to-use format • CAD drawings • Instruction sheets



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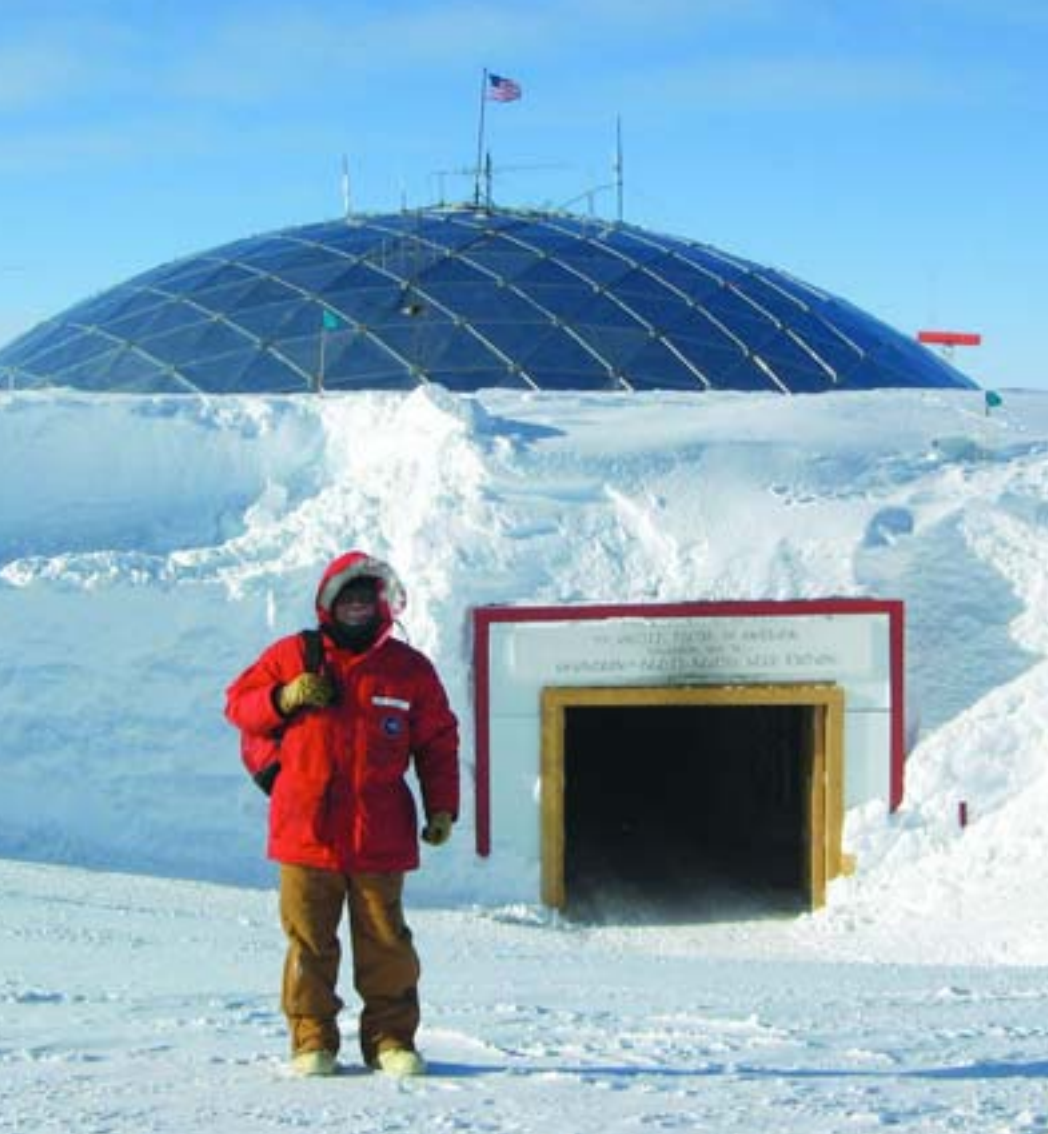


PHOTO COURTESY OF THE ICECUBE PROJECT

"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)

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