



Mini Encapsulated PC Board mounting

LINEAR REGULATED AC-DC single output

- Shipped Within 3 Days
- All Models U.L. Recognized
- 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 Technical Company • Easton, PA
 1-800-523-9478 • www.acopian.com
 Order Factory Direct   
 Made in USA 



single output

Mini Encapsulated - PC Board mounting

LINEAR REGULATED

AC-DC

- Shipped Within 3 Days
- All Models U.L. Recognized
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Conserve space with mini-modules as small as 2.3" x 1.8" x 1.0". Models with outputs ranging from 1 to 75 volts, and from 30 mA to 2.5 amps are available. All feature excellent regulation and ripple parameters, and are short circuit protected.

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

STANDARD FEATURES

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

SPECIFICATIONS

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

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

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

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

Ambient Operating Temperature: -20 to $+71^{\circ}\text{C}$. No derating required.

Storage Temperature: -55 to $+85^{\circ}\text{C}$.

Temperature Coefficient: From 9 to 75 volts, typically $0.015\%/^{\circ}\text{C}$; 1 to 8 volts, $0.03\%/^{\circ}\text{C}$.

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

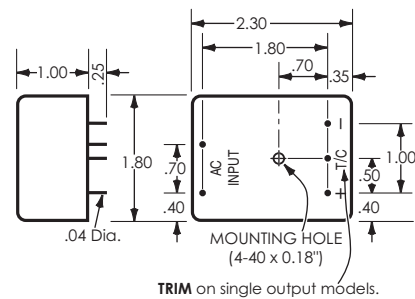
Weight:

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

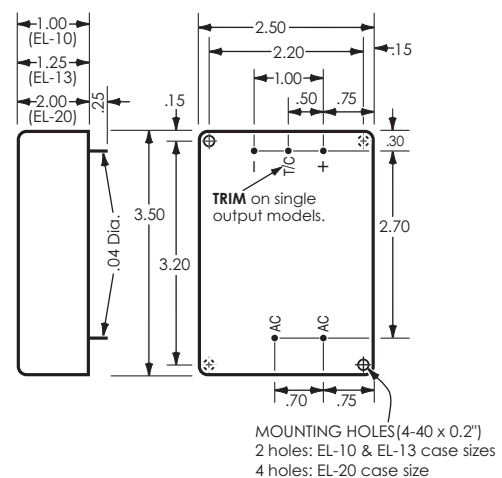
Mounting: May be mounted on printed circuit board or in socket (see page 34).

OPTIONS

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



Case Size ES-10



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

SINGLE OUTPUT, FOR PC BOARD MOUNTING

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

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

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

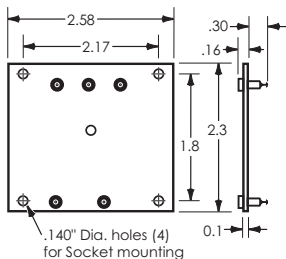


ACCESSORY SOCKETS:

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

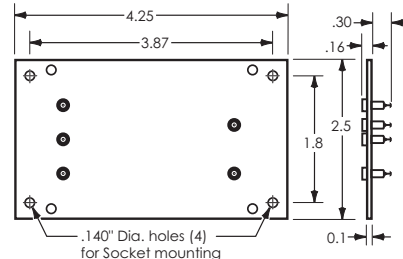
Each of these sockets has a sturdy phenolic base with gold plated teflon-insulated contacts.

Model ES-1
\$20

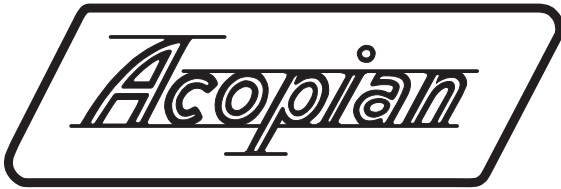


For case sizes ES-10 and ESC-10

Model EL-1
\$20



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



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

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, 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, 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.

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Jim Baccus
Cable System Manager
Project IceCube

(the international high-energy neutrino observatory being built and installed in the ice below South Pole Station)

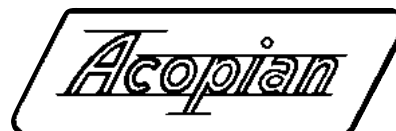
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