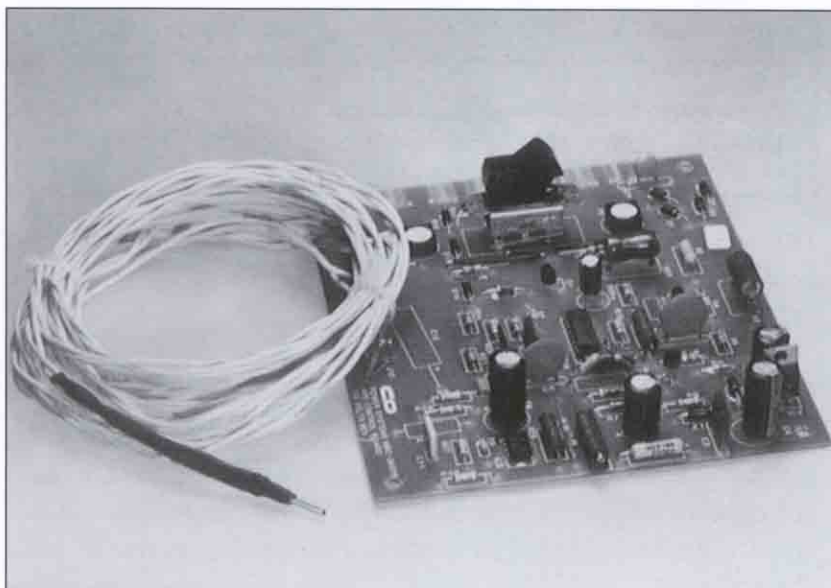


C&D TECHNOLOGIES

Power Solutions

FLOAT VOLTAGE TEMPERATURE COMPENSATION CIRCUIT

For single-phase, 130-volt ARE chargers (50 or 60 Hertz)



- Extends battery life
- Wide temperature range
- Rugged, shock-resistant design
- Unaffected by severe environmental exposure

The life of your valve-regulated (sealed) and flooded batteries is extended with the temperature compensating circuit from C&D Technologies. Consisting of a probe and a control board, the probe signal and control circuit interact to automatically adjust float voltage.

Encompassing a wide temperature range, the rugged design of the probe is unaffected by severe environmental exposure.

In order to monitor temperature, the probe needs only to be installed near the battery — fastened either on the battery rack or wall, equidistant from the bottom and top of rack. Not limited by long distances, it can be extended in the field up to 100 feet (30 meters).

The compensation circuit can either be ordered with the ARE single-phase, 130-volt chargers (50 or 60 Hertz), or can be retrofitted in the field. Field modification is as simple as replacing the control board and mounting the temperature probe.

RECTIFIER SPECIFICATIONS (SM48 7.5)

PHYSICAL SPECIFICATIONS	
HEIGHT	3.5" (12.7cm)-2 Rack Spaces
WIDTH	19" or 23" Relay Rack Mount
DEPTH	13.12" (33.32cm)
WEIGHT	10.5 lbs. (1.4 kgm)

ENVIRONMENTAL SPECIFICATIONS	
OPERATING TEMPERATURE	-40 C to +65 C (-40 F to +149 F)
STORAGE TEMPERATURE	-40 C to +85 C (-40 F to + 185 F)
HUMIDITY	0 to 95 % Non-Condensing
ALTITUDE	7,000 ft. (2,133 m)
HEAT DISSIPATION	244 BTU/Hr. Maximum @ 7.5 Amps and 54 Vdc
COOLING	Forced Air
SEISMIC	BELLCORE Zone 4
AUDIBLE NOISE	<62 dBa @ 2 ft. in Front of Plant

ELECTRICAL SPECIFICATIONS	
EMI	FCC Part 15, Subpart J for Class A Equipment
LIGHTNING	ANSI/IEEE C62.41C Class B3
ELECTRICAL NOISE: VOICE BAND	32 dbrnc
ELECTRICAL NOISE: WIDE BAND	40mv rms: DC to 20Mhz
ELECTRICAL NOISE: Peak to Peak	250mv Peak to Peak @ 20 Mhz Band Width
CONNECTIONS	DC Connections are at Rear of Unit. AC Connections via Standard line Cord.

AGENCY APPROVALS	
	UL / CSA / VDE / CE / ISO 9001

POWER SPECIFICATIONS	
INPUT VOLTAGE	106-264 Vac, Single Phase, 45-65 Hz: Auto Ranging with Input Current Limiting to Prevent AC Service Circuit Breaker Trip at Extreme AC Line Brown Outs (110 Vac or 208/240 Vac Inputs)
INPUT CURRENT	4.4 Amps @ 120 Vac: @ Full Load, 60Vdc 2.6 Amps @ 208 Vac: @ Full Load, 60Vdc 2.3 Amps @ 240 Vac: @ Full Load, 60Vdc
OUTPUT VOLTAGE	Float: 48 to 56 Vdc Equalize: 48 to 60 Vdc
OUTPUT REGULATION	+/- 0.5% for 0 to 100% of Full Load within the Specified Input Voltage and Frequency Range
OUTPUT CURRENT	7.5 Amps Max.
OUTPUT MAX. POWER	450 watts: 7.5 Amps @ -60 Vdc
CURRENT LIMIT	Fixed at 100% Full Load
LOAD SHARE	+/- 10% from 10% to 100% of Full Load Rating
POWER FACTOR	> .99
EFFICIENCY	> 84%

PROTECTION	
INPUT PROTECTION	Fuse in Each AC Input Circuit
OUTPUT PROTECTION	Diode
OUTPUT OVERVOLTAGE SHUTDOWN	Fixed at 60 Vdc
TURN-ON	Soft-Start

CODED LED MESSAGES	
	Low Current, Over Voltage, AC Line Low, Over Temperature, Remote Float Control Out-of-Range, Load Share Out-of-Range, Thermal Shut-Down, Air Flow Low, External High Voltage Shut-Down

POWERCOM DIVISION

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