

CH-M500 Series

Conduction Cooled AC/DC Power Supply



FEATURES

- Conduction cooled
- 85~245 VAC input; 50/60-400 Hz
- D38999 connectors
- Conformal Coated
- 20 msec holdup time
- Aluminum Enclosure-Conductive Chromate treated
- Mil-Std 461, 704, 810, 1275, 1399 Compliant

INPUT	Voltage/ Freq	Vrms	AC 85~264/ 47~440Hz,
C	Current	A(rms)	6A (typical at maximum output power, 115VAC in)
	Inrush Current	А	25 A max at cold start
	Power Factor	-	> .99 @ 115vac; > .97@230vac @ full load (Meets Mil-Std 1399 Sec 300)
	Leakage Current	mArms	< 3.3 mArms @ 115 VAC in

		Unit	CH-M500-12	CH-M500-24	CH-M500-28	CH-M500-48	
OUTPUT	Voltage	VDC	12	24	28	48	
	Efficiency 110 VAC 220 VAC	%	84 85	88 89	88 89	88 90	
	Current	Α	41.6	20.5	18	10.42	
	Max Power	W	500	500	500	500	
	Regulation	%	+/-1.00	+/-0.5	+/-0.5	+/-0.5	
	Ripple/Noise (Max)	% Pk-Pk	1.00	1.00	1.00	1.00	
	Hold-up Time	mS	>20mS @ full load, 115 VAC				
	Insulation And Dielectric	Primary- Secondary	4242 VDC (3000 VAC)				
		Primary to Ground (Mounting holes or chassis)	>1500 VDC for 30 seconds				
		Output to Ground	>100MΩ at 25°C, 40%RH & 500VDC				

Note: Full performance data information available upon request.



Protection	Overvoltage	Shutdown and latch off; AC recycle to restart		
	Overload	Hiccup, Auto recovery		
	Over temperature	Output shutoff until base plate temp reaches over 75°C,		
	Short Circuit	Auto Recovery		
Environment	Operating Temp	-40~85°C Ambient (Maximum Base plate 75°C)		
	Storage Temp	-55 to +100 °C		
	Operating Humidity	10~95% , non-condensing		
	Operating Altitude	15,000 ft max		
	Vibration	MIL-STD810H, Method 514.8, Category 24, Figure 514.8E-1.		
	Shock	MIL-STD-810H, Procedure 1, 20G 11ms		
	MTBF Telecordia SR-22	>158,000 hrs.@ 40C ambient temp.		
Standards	Conducted Emissions ² Susceptibility Radiated Emissions Immunity ³ Transient Conducted Emissions ² MIL-STD-461F/G: CE 101, CE 102 (10Khz~10Mhz) MIL-STD-461F/G: CS114, CS115 MIL-STD-461F/G: RE102, RE103 8 kV (contact discharge) or 15 kV (air discharge) elec			
Size	Inches/lbs	8" x 5" x 2.60" / 4.9 lbs		

^{1.} Ripple and noise are measured at oscilloscope 20MHz bandwidth by a 10uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector.

OPTIONS

Connectors

Customer may request connector change with MOQ, D38999 or equivalent MIL/SAE 5015 or equivalent

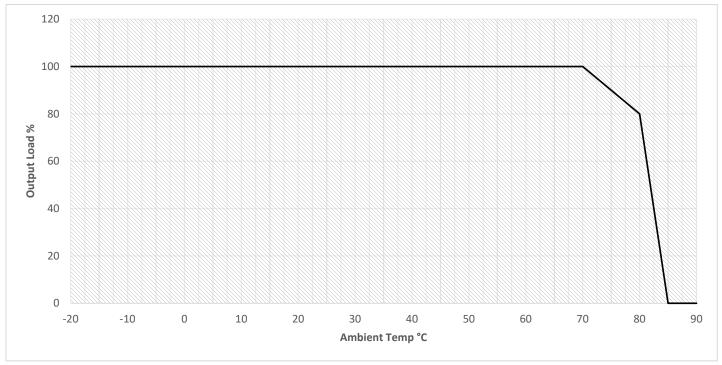
Additional Options

Non-Standard Voltages
MIL-DTL-901(E) Grade B shock enclosure
Anodized Enclosure
Powder coat painted
External potentiometer (Voltage Trim)

^{2.} Standards: Unit has been designed to meet the standards listed. It is the responsibility of vendor to test in system. Conducted emissions (CE101, C102) using shielded 3 conductor cable (L,N,G) with unit mounted to chassis ground.

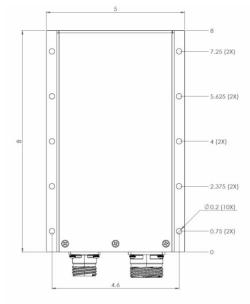
^{3.} Contact factory for test conditions.

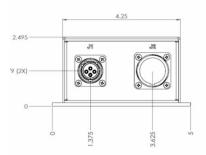
DERATING



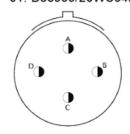


DIMENSIONAL DRAWING



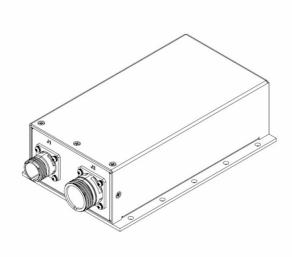


J1: D38999/20WC04PN



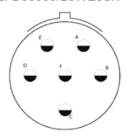
J1: D38999/20WC04PN

J1-A: Line J1-B: Neutral J1-C: Ground J1-D: N/C





J2: D38999/20WE6SN



Standard Connector

J2: D38999/20WE6SN

J2: D38999/20WE J2-A: +Vout J2-B: +Vout J2-C: +Vout J2-D: Vout RTN J2-E: Vout RTN J2-F: Vout RTN

Specification subject to change without notification