CH-M1400 Series Conduction Cooled 3 Phase AC/DC Power Supply

FEATURES

- Conduction cooled
- Three Phase Input
- 85~155 VAC input; 400 Hz
- Conformal Coated
- >50 msec holdup time
- Aluminum Enclosure

INPUT	Voltage/ Freq	Vrms	AC 85~155/ 350~440Hz
	Current	A(rms)	4.5A (typical at maximum output power, 110VAC in)
	Inrush Current	A	15 A max at cold start Max
	Power Factor	-	> 0.98 @ full load (115VAC)
	Leakage Current	mArms	< 3.3 mArms @ 115 VAC in

			CH-M1400-28	CH-M1400-48
OUTPUT	Voltage	VDC	28	48
	Current	A	50	29.2
	Efficiency 110 VAC Full Load	%	86	88
	Max Power	W	1400	
	Regulation	%	+1/-2.5%	+1/-2.5%
	Ripple/Noise	% Pk-Pk	1.00	1.00
	Hold-up Time	mS	>50mS @ 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 85C, Thermal cutoff is 90°C (measured at baseplate)
	Short Circuit	Auto Recovery
Environment	Operating Temp	-40~85C
	Storage Temp	-55 to +105 C
	Operating Humidity	10~95% , non-condensing
	Operating Altitude	12,000 ft max
	Vibration	MIL-STD810H, Method 514.8, Category 24, Figure 514.8E-1.
	Shock	MIL-STD-810H, Procedure 1, 20G 11ms RTCA/DO-160G, Section 7.0
	MTBF Telecordia SR-22	>205,000 hrs.@ 40C ambient temp. Ground benign
Standards	Conducted Emissions[2] Susceptibility Radiated Emissions Immunity[3]	MIL-STD-461F/G: CE 101, CE 102 (10Khz~10Mhz) MIL-STD-461F/G: CS114, CS115 MIL-STD-461F/G: RE102, RE103 CS115, CS115, CS116
Size	Inches/lbs	11” x 7.5" x 2.60” / 7.5 lbs

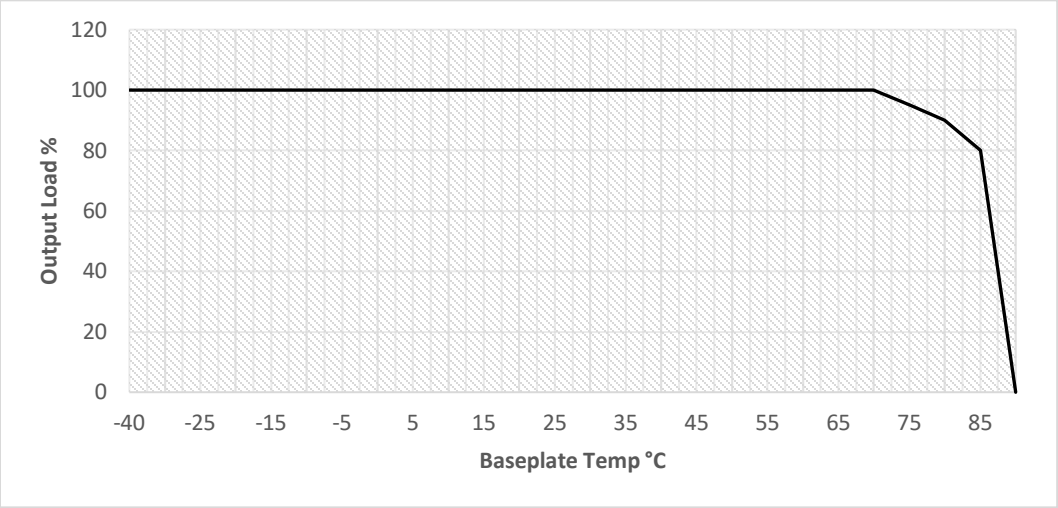
1. Ripple and noise are measured at oscilloscope 20MHz bandwidth by a 10uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector.
2. Standards: Unit has been designed to meet the standards listed. It is the responsibility of the customer to test in system. Conducted emissions (CE101, C102) using shielded 3 conductor cable (L,N,G) with unit mounted to chassis ground.
3. Contact factory for test conditions.

OPTIONS

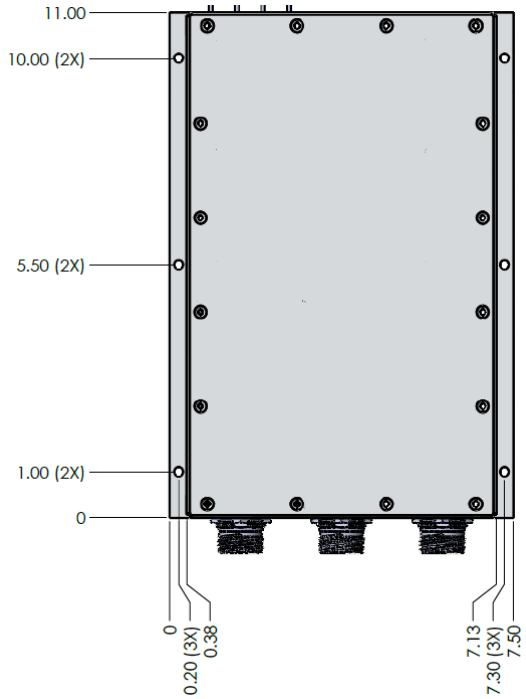
Connectors
Customer may request connector change with MOQ ▪D38999 or equivalent ▪MIL/SAE 5015 or equivalent

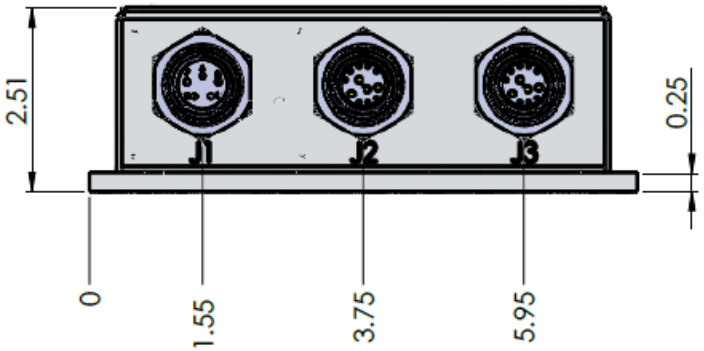
Additional Options
MIL-DTL-901(E) Grade B shock enclosure Anodized or Power Coat Enclosure Secondary Voltage (5,12,15,24VDC) at 10A max

DERATING



DIMENSIONAL DRAWING





* *Dimensions shown in inches*
***Contact ETA-USA on Interface Options*

Specification subject to change without notification