

LPM500 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, 901 D, 1399 Compliant

INPUT			
Voltage/ Freq	Vrms	AC 85~264/ 47~440Hz,	
Current	A(rms)	6A (typical at maximum output power, 115VAC in)	
Inrush Current	A	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	
No Load Consumption	mArms	450 mA max @ 115Vac in	

		Unit	CH-M500-12	CH-M500-24	CH-M500-28	CH-M500-48
OUTPUT	Voltage	VDC	12	24	28	48
	Efficiency	%	84	88	88	88
	110 VAC		85	89	89	90
	220 VAC					
	Current	A	41.7	20.5	18	10.42
	Max Power	W	500	500	500	500
	Regulation	%	+/-1.5	+/-1.00	+/-1.00	+/-1.00
	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	-40~80°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-STD 810H, Method 514.8, Category 24, Figure 514.8E-1.
	Shock	MIL-STD-810H, Procedure 1, 20G 11ms MIL-S 901D
	MTBF Telecordia SR-22	>158,000 hrs.@ 40C ambient temp.
Standards	Conducted Emissions ² Susceptibility Radiated Emissions Immunity ³ Transient	MIL-STD-461F/G: CE 101, CE 102 (10Khz~10Mhz) MIL-STD-461F/G: CS114, CS115 MIL-STD-461F/G: RE102, 8 kV (contact discharge) or 15 kV (air discharge) electrostatic discharge MIL-STD 704
Size	Inches/lbs	9.15" (10.07 w/ conn) x 6.15" x 1.8" / 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.
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.

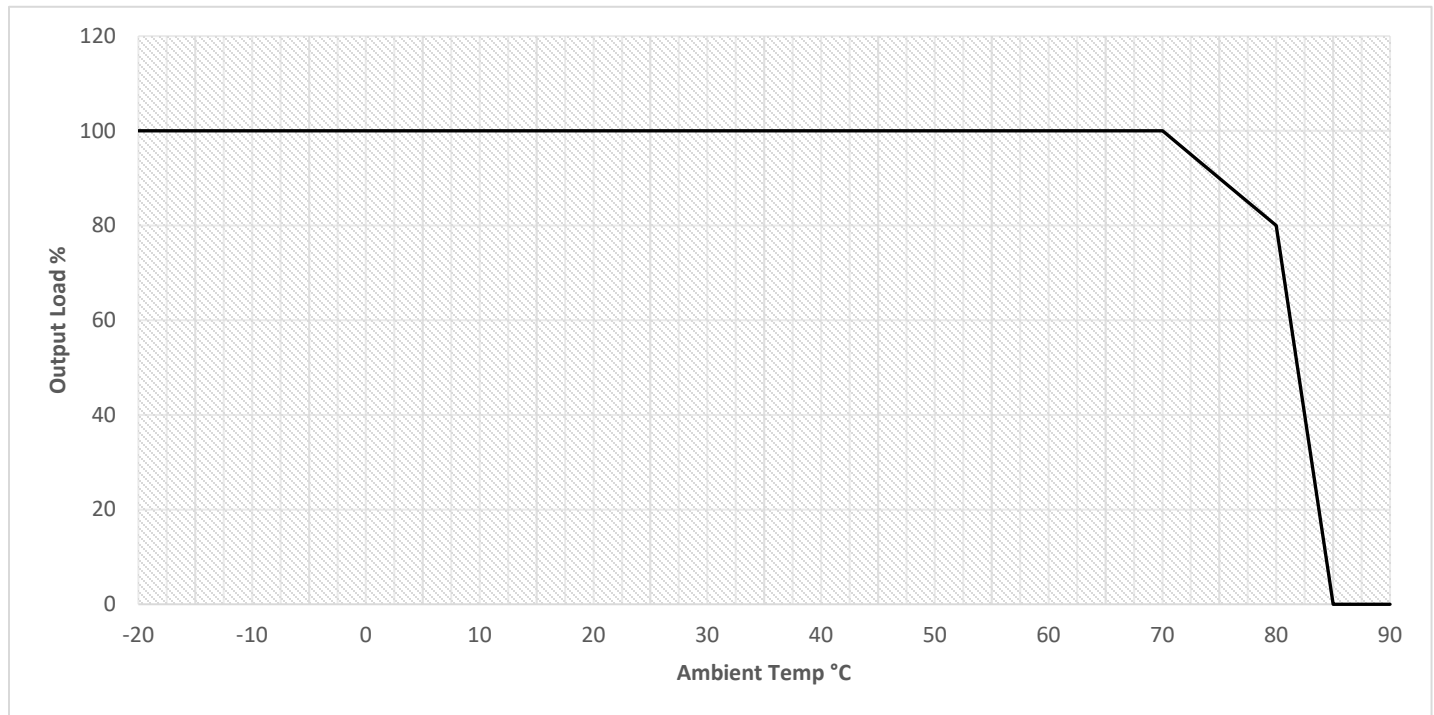
OPTIONS

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

Additional Options
Non-Standard Voltages Anodized Enclosure Powder coat painted



DERATING



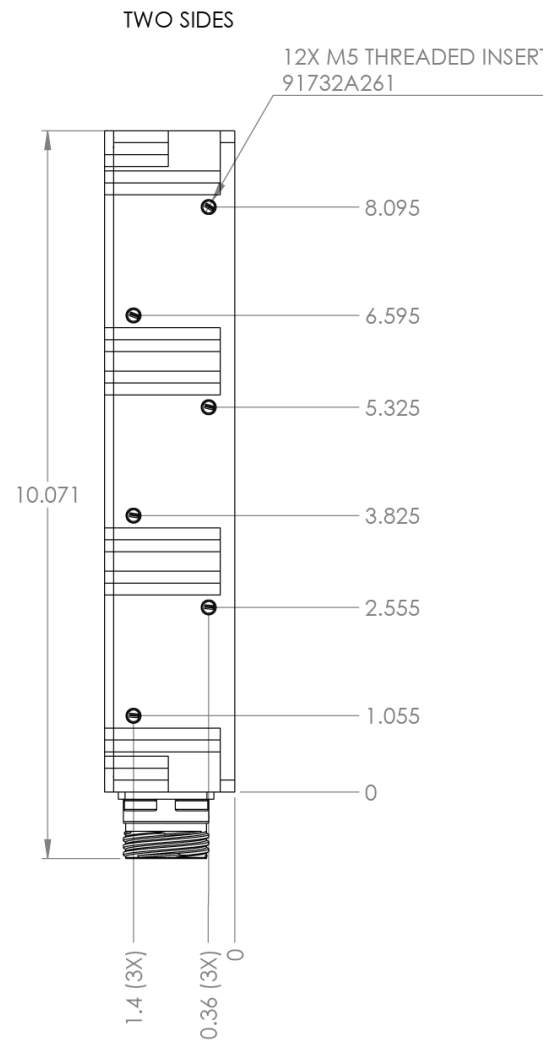
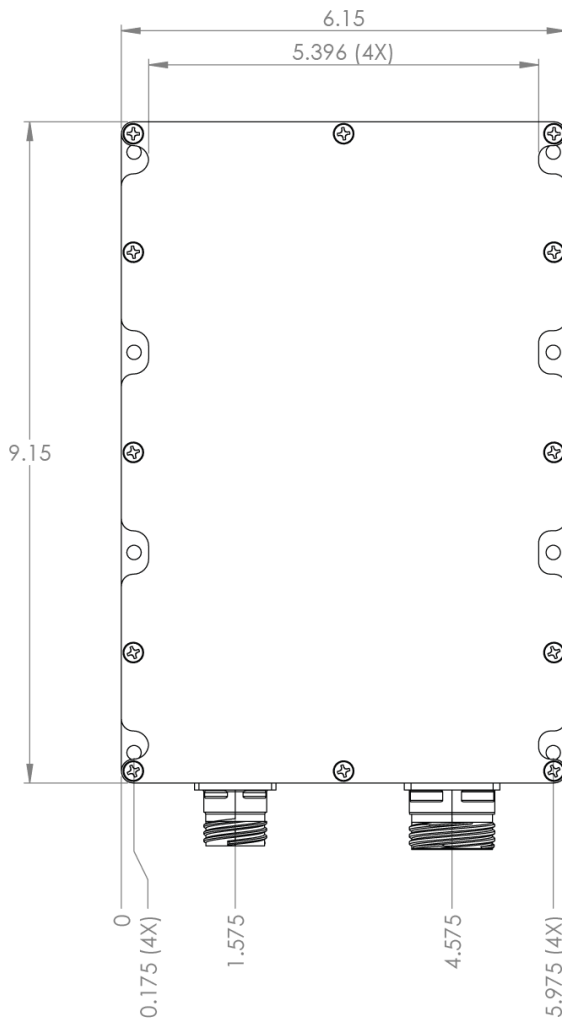
LPM500-**vv**-(**F#**)-(**++**)

DESIGNATION	FUNCTION	OPTION DESCRIPTION
vv	Output Voltage	12, 24, 28, 48,
F#	Chassis Finish	Chromate: Gold=BLANK Clear =F1 Anodize: Gold =F10 Clear =F11 Black=F12 Blue=F13
		*Powder Coat Paint: Light Gray=F20 Sand= F21 NATO Green=F22
++	Additional Customization	Connector changes or custom pinouts, additional requests shall have additional suffix assigned, inquire with an ETA representative.

** Powder coat paint: Unit shall be subjected to a clear chromate coat and painted on all sides except base. Colors not listened may be available by special request if customer submits RAL, Pantone, or Hex Number.*

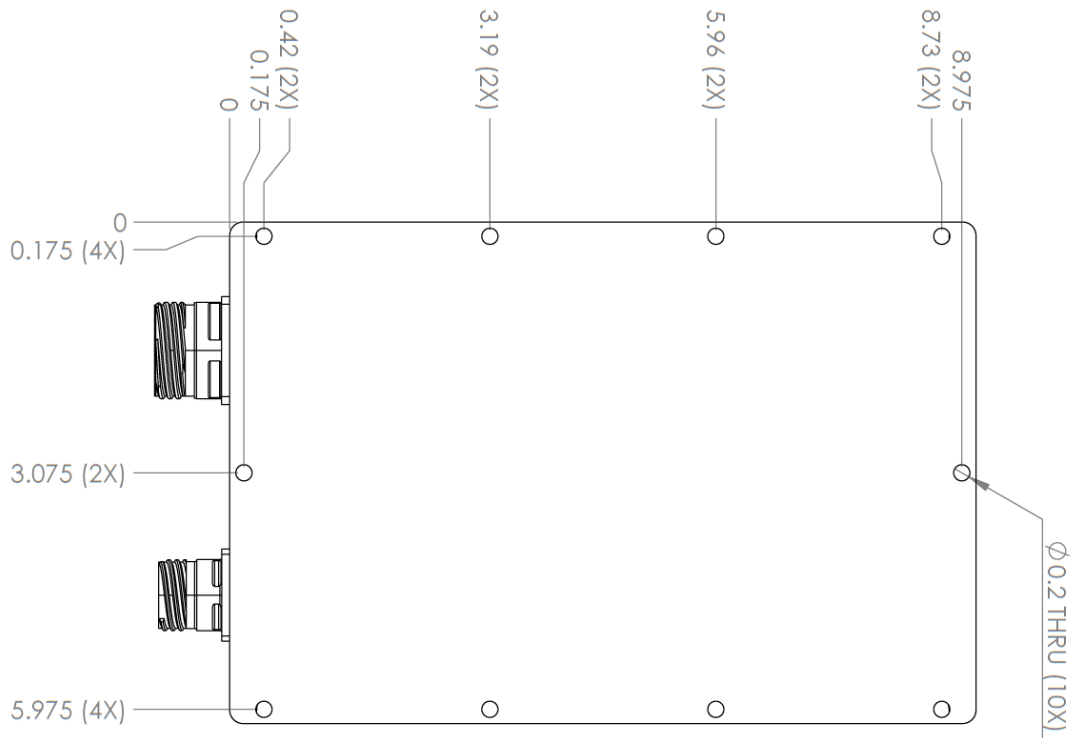


DIMENSIONAL DRAWING

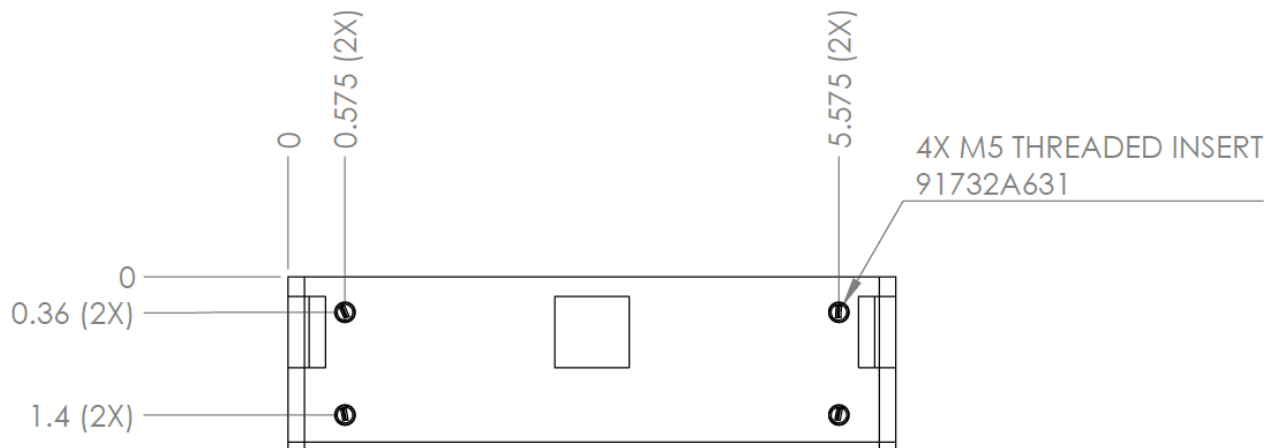




BOTTOM

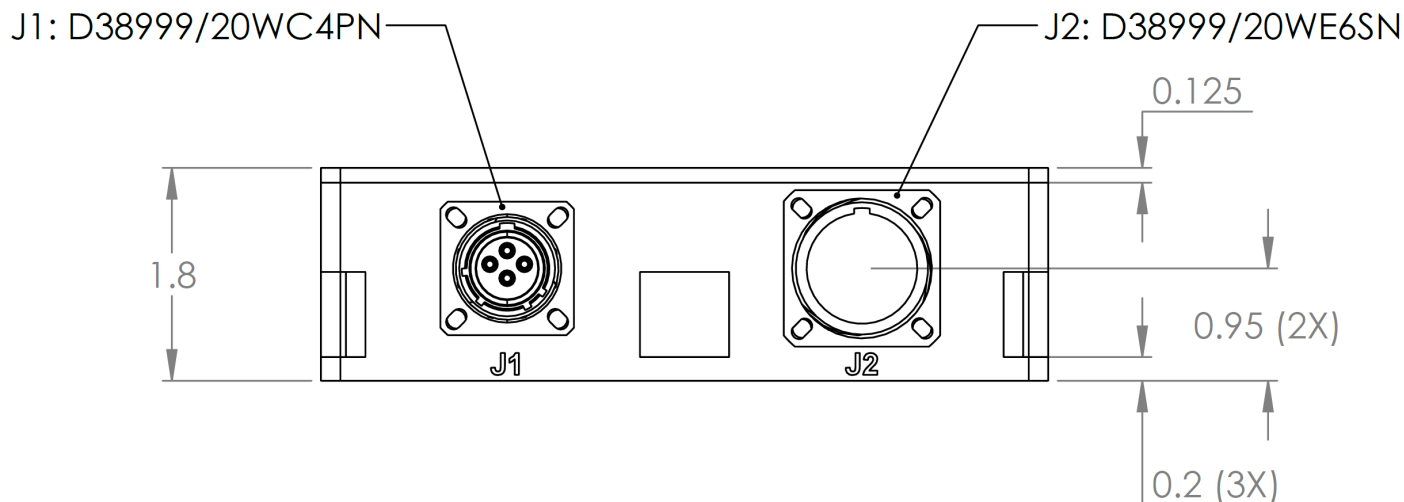


REAR



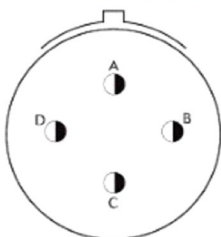


FRONT

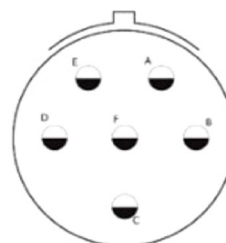


Pinout (Standard)

J1: D38999/20WC04PN



J2: D38999/20WE6SN



Standard Connector

J1: D38999/20WC04PN

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

J2: D38999/20WE6SN

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