

Rantec Power Systems Announces 3U Power Supply for Military Avionics and Vetrronics

VPX28M

Military Power Supply

- Input: 28VDC
14-32V operating
(17V start-up)
- Outputs: 6 outputs up to 228W
- VPX/VITA 62 Signals
FAIL*, INHIBIT*, ENABLE*,
SYSRESET
- IPMI Communication Bus per
VITA 46.11
- Temperature Monitor
- BIT (start-up and continuous)
- VITA 62.0 3U, 1" pitch
- Hold-up: 10 mS
- EMI per MIL-STD-461F: CE102,
CS101, CS114, CS115, CS116
- Protection: Overcurrent, voltage,
reverse polarity, temperature
- Output Ripple & Noise:
<50mVp-p w/2 μ F min. external
capacitance on all outputs
- Efficiency: Up to 90%
- MTBF: >140,000 hrs @ 60C GM.
- Environments:
Temp: -40 to +85 C
MIL-STD-810G Humidity
MIL-STD-810G Vibe and Shock
- Weight: <1.5 lbs.

Rantec's VPX28M high performance, multiple output 3U military power supply addresses the needs of today's military for VITA 48 / VITA 62 plug-in applications. It operates from nominal 28VDC input, including transients from 12VDC-52VDC, and is protected against surges up to 100VDC and spikes to 250VDC, per MIL-STD-1275D. The VPX28M provides 6 outputs at up to 228W output power, complies with MIL-STD-461F and MIL-STD-810G environments, and is designed using NAVSO P-3641A derating guidelines. The VPX28M features include microprocessor control, independently regulated outputs, input to output isolation, VPX / IPMI signals, and under/over/reverse input voltage, output over-voltage, and overload protection.

A RPS Holdings Company

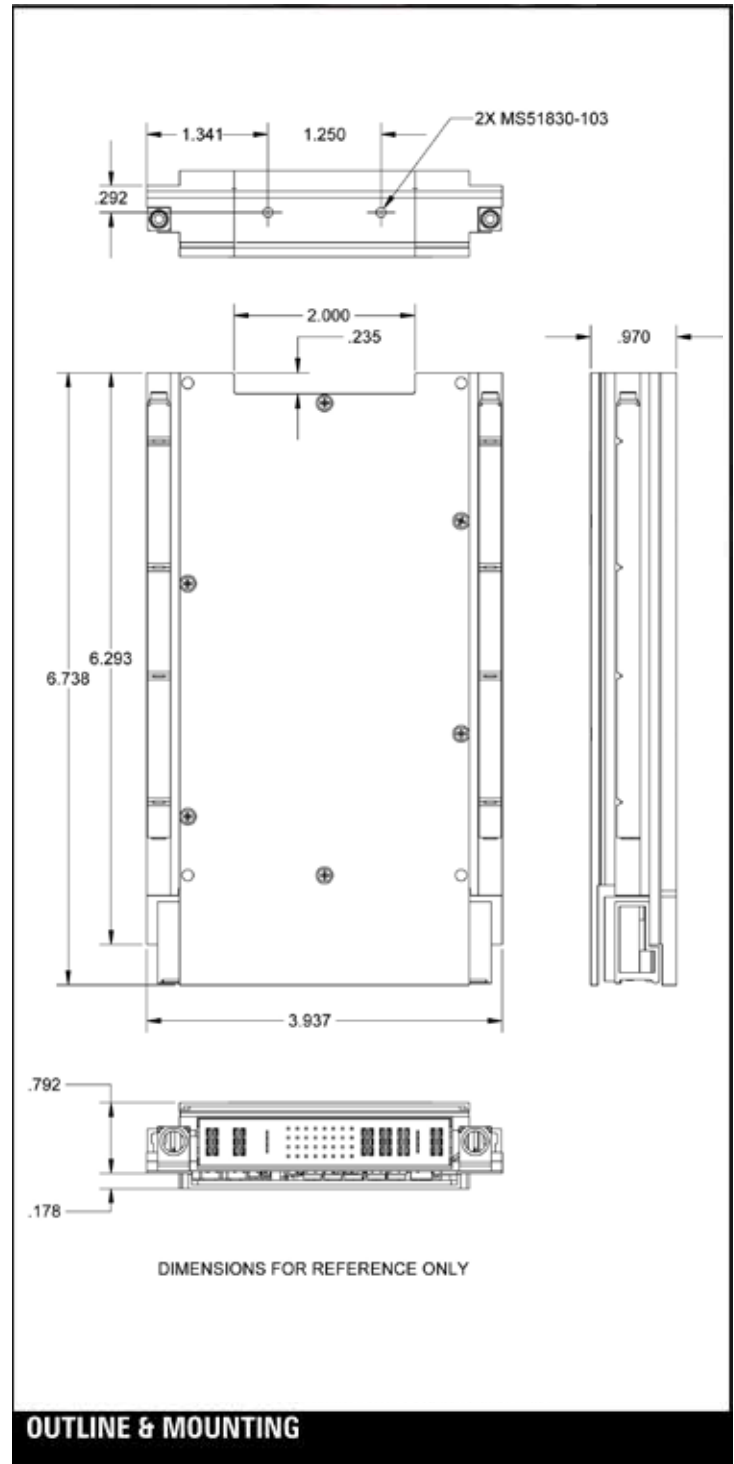
Consult Rantec for Your Configurations



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ELECTRICAL INPUT		
Voltage	28VDC	
Voltage Range	14-32V operating (17V start-up)	
Surges	Up to 100VDC per MIL-STD-1275D	
Efficiency	Up to 90%	
Loss of Input	Auto recovery after input returns	
ELECTRICAL OUTPUT		
Output	3.3VDC	12A max
	5VDC	15A max
	+12VDC	10.5A max
	-12VDC	0.5 A max
	+/- 15VDC	2.5A max (ea)
Max combined output power 228W		
Turn-on Time	<100mS	
Regulation	+/- 1% line/load	
Temperature Coefficient	.02%/°C maximum	
Noise +Ripple	<50mVp-p w/2µF min. external capacitance on all outputs	
Sequencing	Turn-on / Turn-off per Vita 62.0	
Hold-up	10 mS	
EMI	MIL-STD-461F: CE102, CS101, CS114, CS115, CS116	
Isolation	10Mohm / 100VDC	
MECHANICAL		
Dimensions	6.72 x 3.94 x 0.97 inches	
Weight	<1.5 lbs.	
Format	VITA 62.0 3U, 1" Pitch	
Connectors	6450849-7 (Mate 1-6450869-4)	
ENVIRONMENTAL		
Operating Temperature	-40 - + 85 C	
Cooling	Conduction cooled	
Storage Temperature	-55°C to +125°C	
Altitude	Up to 70,000 feet	
Humidity	MIL-STD-810G, Method 507.5, Proc II, 15 cycles	
Vibration	MIL-STD-810G, Method 514.6, Proc I, 12 grms, 10-2000Hz	
Shock	MIL-STD-810G, Method 519.6, Proc I, 350G, 1ms half sine pulse	
MTBF	>140,000 hrs 60C ground mobile	



OUTLINE & MOUNTING

VPX28M

Military Power Supply



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