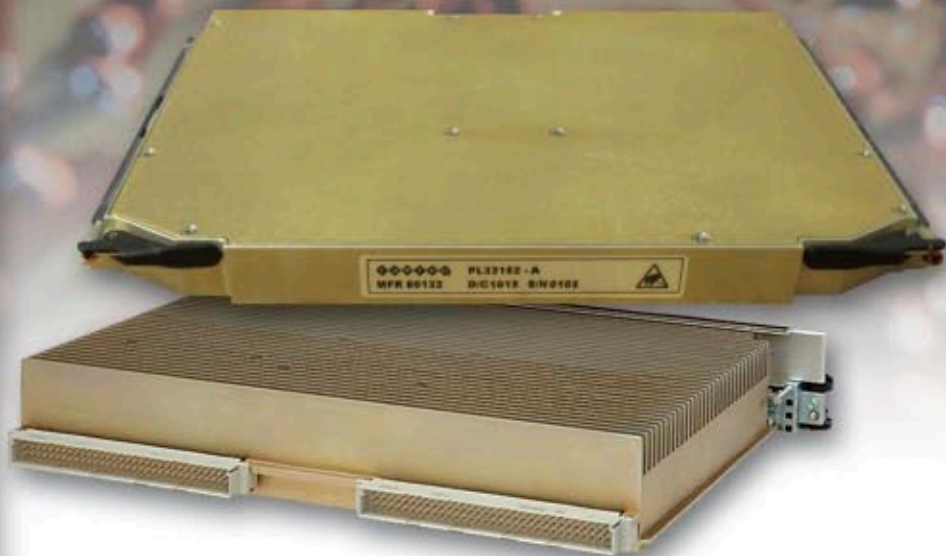


Power Solutions for Today's Military

Power Systems from **COTS+** Building Blocks

VME28E Military Power Supply

- ◆ **Input 28VDC**
MIL-STD-704 A-F steady state,
normal & abnormal conditions
- ◆ **Standard VME Outputs**
5V, 3.3V, $\pm 12V$, 250W
- ◆ **Output ripple <50mV_{p-p}**
- ◆ **MIL-STD-461 C-E compliant**
CE01/03 CS01/02
CE102 CS101/114/115/116
RE102 RS103
- ◆ **Operating Temperatures**
Single-Slot Conduction Models:
-55°C to +85°C
Double-Slot Convection Models:
-55°C to +65°C
- ◆ **Rugged – MIL-STD-810/901**
Vibration, Shock, Humidity
- ◆ **Thermal protection**
with auto recovery
- ◆ **Output Protection**
Over-voltage & Over-current
- ◆ **Consult Rantec for**
Custom Configurations



The VME28E multiple-output military power supply addresses the needs of today's military for plug-in conduction and convection cooled applications. Our multiple-output power supplies are proven COTS products for the most demanding military airborne, shipboard and vetronics VME system applications. Operating from MIL-STD-704A-F 28VDC input power, these units provide 4 outputs, generate up to 250 watts, comply with MIL-STD-461C-E EMI requirements, and are designed to the derating guidelines of NAVSO P-3641.

The System Designer's Choice

**Rantec Power Team Engineers
Offer Technical Assistance to:**
Evaluate Power System Requirements
Develop Power System Architecture
Reduce Time to Market



Rantec Power Systems Inc.

VME28E

Military Power Supply

ELECTRICAL INPUT

Voltage / Frequency	28 VDC
Voltage Range	20-33 VDC
Efficiency	70% minimum
Loss of Input	Auto recovery after input returns

ELECTRICAL OUTPUT

Output	3.3V @ 20A
	5.0V @ 30A
	±12V @ 1.5A each
Turn-on Time	<100mSec
Regulation Line / Load	±1%
Temperature Coefficient	.02%/°C maximum
Noise / Ripple	<50mV _{P-P} , all outputs, 20MHz bandwidth
Overvoltage Protection	120% nominal
Current Limiting	Output protected, auto recovery
Maximum Power	Up to 250 watts
EMI	MIL-STD-461C-E; CE01/03, CS01/02, CE102, CS101/114/115/116, RE102; RS103
Isolation	Input-Case 10M Ω @ 100 VDC Input-Output 10M Ω @ 100 VDC Output-Case 10M Ω @ 100 VDC

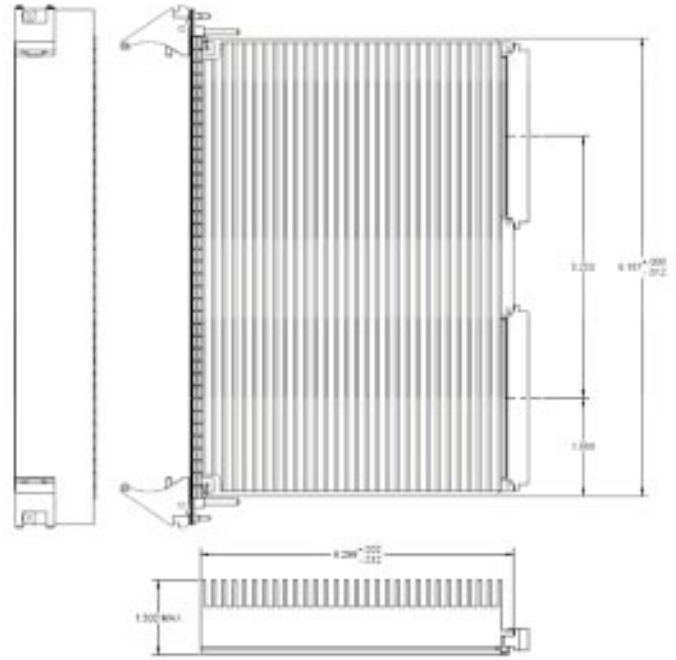
MECHANICAL

	Conduction	Convection
Dimensions	6.184 x 9.182 x .70 inches	6.184 x 9.182 x 1.50 inches
Weight	<3.0 lbs.	<3.8 lbs.
Physical Format	6U x 160mm IEEE Std 1101.2-1998	
Output Connectors	ERNI DIN 41612	

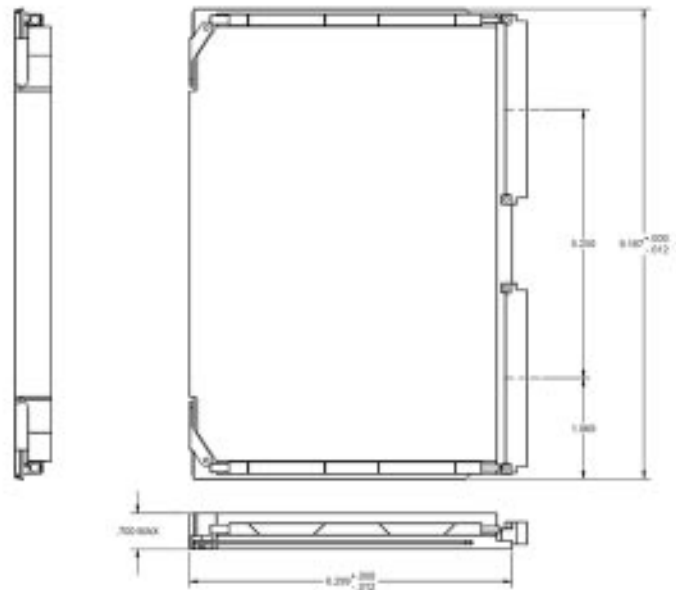
ENVIRONMENTAL

	Conduction	Convection
Operating Temperature	-55°C to +85°C Card Edge Guide	-55°C to +65°C @ 300 LFM Air Flow
Cooling	Card Edge Guide	Cooling Fins
Storage Temperature	-55°C to +125°C	
Altitude	Up to 70,000 feet	
Humidity	MIL-STD-810F, Meth 507.4, 5cycles/48 hrs	
Vibration	MIL-STD-810F, Meth 514.5, Proc. 1, Cat. 12 modified: acceleration PSD .01 G ² /Hz from 20 to 2000 Hz.	
Shock	MIL-S-901C, Grade A, Type A, Class 1 high impact	
MTBF (@ 55°C per MIL-HDBK-217)	70,000 Hrs NS 40,000 Hrs AUC 39,500 Hrs GM	

For more information, request Specification Control Drawings from your Rantec Sales Rep.



CONVECTION COOLED MODEL



CONDUCTION COOLED MODEL

OUTLINE & MOUNTING

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