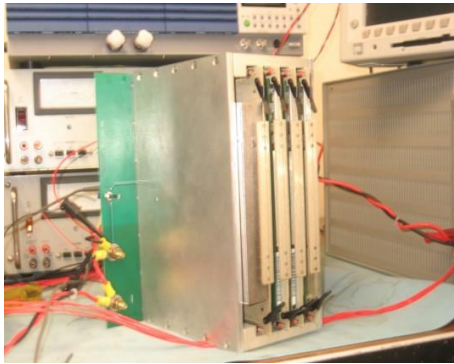




MS6

MODULAR SYSTEMS / SERIES 6



- 6U power supply w/ integrated EMI filter
- 28VDC input per MIL-STD-704F
- 80% Efficiency
- Designed for full Military Environment
- Up to four Available Outputs
- Output Power up to 1000 Watts
- Primary Power Control
- VME/Vita 41

DESCRIPTION:

The MS6 series DC/DC converter system is designed with an integrated EMI filter that plugs into a VME card case. The VMC power supply can be controlled remotely via remote on/off signal. Prime Power's MS6 series is a high-density 6U power supply designed to meet the input requirements of MIL-STD-704F. The 6U power supply also meets the requirements of MIL-STD-801 for environmental requirements.

GENERAL SPECIFICATIONS				
INPUT VOLTAGE	28VDC			
FREQUENCY RANGE	N/A			
OUTPUT VOLTAGE	5VDC	3.3VDC	+12VDC	-12VDC
OUTPUT CURRENT	100A	60A	2A	2A
PHYSICAL SIZE	EMI/TRANSIENT PROTECTION/INRUSH LIMITING IN 2 SLOT DC CONVERTER SECTION IN 2 SLOT FOR A TOTAL OF 6U			
WEIGHT	CONTACT: SALES@PRIME-POWER.COM			
MTBF	CONTACT: SALES@PRIME-POWER.COM			

PHYSICAL CHARACTERISTICS	
MAXIMUM CASE SIZE	1X2 SLOT, 2X1 SLOT FOR A TOTAL OF 6U
COOLING METHOD	COOLING THROUGH RAILS MAX AMBIENT TEMP 75°C
ENCAPSULATION	N/A (CONFORMAL COAT)
ENCLOSURE FINISH	YELLOW CHROMATE
BASEPLATE FINISH	YELLOW CHROMATE
INPUT/OUTPUT TERMINATION	POSITRONICS PCIH49M OR CUSTOMER SPECIFIED
MOUNTING	6U RACK MOUNT

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1 OWENS CT.
HAMPSTEAD NH, 03841.



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ELECTRICAL SPECIFICATIONS				
OUTPUT VOLTAGE	5VDC	3.3VDC	+12VDC	-12VDC
LINE REGULATION (LO LINE TO HI LINE)	2.00%	2.00%	2.00%	2.00%
LOAD REGULATION (1/2-FL W/SENSE)	2.00%	2.00%	2.00%	2.00%
PARD (RIPPLE NOISE) DC-20MHZ	50mV V p-p	50mV V p-p	75mV P-P	75mV p-p
OUTPUT POWER	500 WATTS	210 WATTS	20 WATTS	20 WATTS
OVERCURRENT SETPOINT	115% OF RATED CURRENT			
SHORT CIRCUIT CURRENT	110% TYP.			
OVERVOLTAGE SET	120% OF RATED VOLTAGE			
LOAD STEP RECOVERY (1/2 TO FL)	OUTPUT VOLTAGE RETURNS TO REGULATED LIMIT WITHIN 0-5 mSEC TYP.			
TURN-ON OVERSHOOT	≤0.5VDC			
EFFICIENCY (MIN)	80% TYP			
ISOLATION	ALL DC OUTPUTS, AND RETURNS TO CHASSIS 1MΩ@50VDC			
EMI FILTERING	MIL-STD-461, RE102, RE103 AT TOP LEVEL, AND CE102			

ENVIRONMENTAL SPECIFICATIONS		
PRESSURE-ALTITUDE	MIL-STD-810F	METHOD 520.4 PROCEDURE 1 & 2
HIGH TEMPERATURE	MIL-STD-810F	METHOD 501.4 PROCEDURE 1 & 2
LOW TEMPERATURE	MIL-STD-810F	METHOD 502.4 PROCEDURE 1 & 2
HUMIDITY	MIL-STD-202G	METHOD 103B
FUNGUS	MIL-STD-810F	METHOD 508, CONDITION A
SALT FOG	MIL-STD-202G	METHOD 101 E, TEST CONDITION A
SAND AND DUST	MIL-STD-810F	METHOD 501.4, PROCEDURE 1 & 2
EXPLOSIVE ATMOSPHERE	MIL-STD-810F	METHOD 511, CONDITION A
ACCELERATION	MIL-STD-810F	METHOD 513.5, PROCEDURE 1 & 2
VIBRATION	MIL-STD-810F	METHOD 514.2
SHOCK	MIL-STD-883	METHOD 2002.4

TEMPERATURE SPECIFICATIONS	
OPERATING TEMPERATURE	-46°C TO +85°C W/RAIL TEMP OF 70°C@MAX AMBIENT TEMP
STORAGE TEMPERATURE	-55°C TO +100°C
TEMPERATURE COEFFICIENT	0.02%/°C

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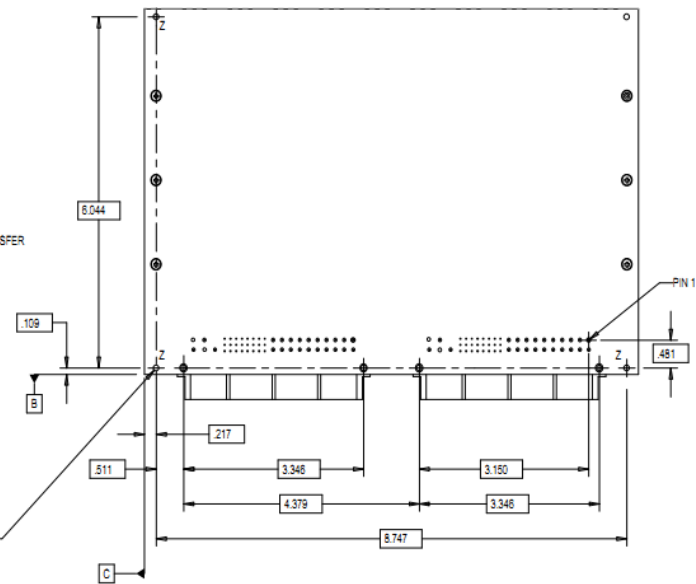
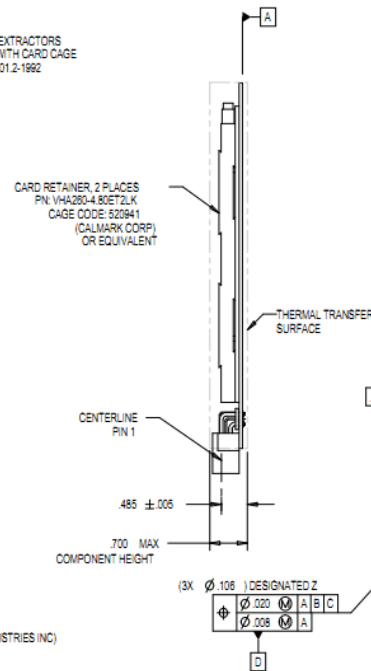
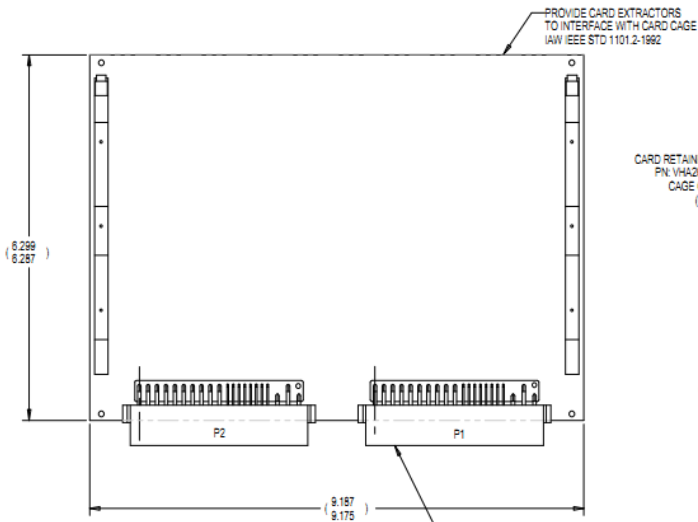
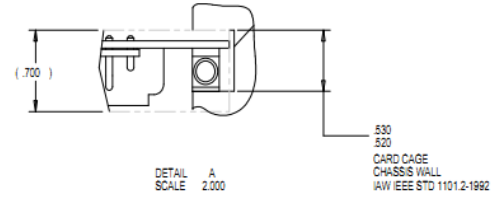
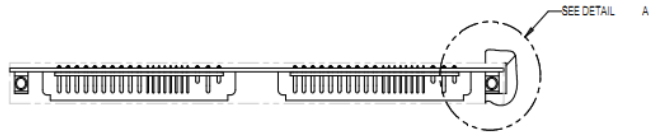
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MODULAR SYSTEMS / SERIES 6



5. PROVIDE CARD EXTRACTORS TO INTERFACE WITH CARD CAGE IAW IEEE STD 1101.2-1992.

4. ALL UNDIMENSIONED HOLES SHALL BE LOCATED ON A .0001 GRID AND ARE BASIC IN RELATION TO THE HORIZONTAL AND VERTICAL AXES ESTABLISHED BY DATUM D.

3. THIS DRAWING SHALL NOT BE USED FOR FABRICATION.

2. UNLESS OTHERWISE SPECIFIED DIAMETERS AND TOLERANCES TO BE DETERMINED BY FABRICATOR.

1. DIMENSIONING AND TOLERANCING IAW ASME Y14.5M-1994.

CONNECTOR P1 AND P2
PN: PCH49V23M42D1
CAGE: 28168 (POSITRONIC INDUSTRIES INC)

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