

X6U

VITA 62 VPX Series

Datasheet Rev A 7/14/23



- 6U power supply (includes integrated EMI Filter)
- 28VDC input per MIL-STD-704F
- 80% Efficiency
- Designed for Military Environment / Compliance
- Up to four available outputs
- Output Power up to 1000 watts
- Primary Power Control
- VPX

DESCRIPTION:

The X6U VITA 62 VPX Series DC/DC converter system is designed with an integrated EMI filter that plugs into a VPX card case. The VPX power supply can be controlled remotely via remote on/off signal. Prime Power's X6U series is a high-density power supply designed to meet the input requirements of MIL-STD-704F. The X6U power supply also meets the requirements of MIL-STD-801 for environmental requirements.

GENERAL SPECIFICATIONS					
INPUT VOLTAGE	28VDC				
OPERATING FREQUENCY	N/A				
OUTPUT VOLTAGE	5VDC	3.3VDC	+12VDC	-12VDC	
OUTPUT CURRENT	100A	60A	2A	2A	
PHYSICAL SIZE	See drawing on final page of Datasheet				
MTBF	CONTACT: SALES@PRIME-POWER.COM				

PHYSICAL CHARACTERISTICS			
MAXIMUM CASE SIZE	See drawina on final page of Datasheet		
COOLING METHOD	COOLING THROUGH RAILS MAX AMBIENT TEMP 75°C		
ENCAPSULATION	Conformal Coat		
ENCLOSURE FINISH	Yellow Chromate		
BASEPLATE FINISH	Yellow Chromate		
INPUT/OUTPUT TERMINATION	See drawing on final page of Datasheet		
MOUNTING	CARD SLOT		

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X₆U

MODULAR SYSTEMS / X6U Series

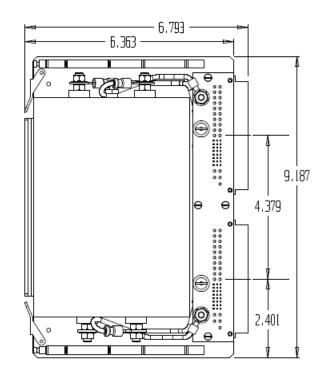
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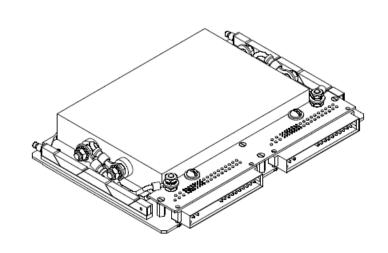
ELECTRICAL SPECIFICATIONS				
OUTPUT VOLTAGE	5VDC	3.3VDC	+12VDC	-12VDC
LINE REGULATION (LO LINE TO HI LINE)	2.00%	2.00%	2.00%	2.00%
LOAD REGULATION (1/2-FL w/ sense)	2.00%	2.00%	2.00%	2.00%
PARD (RIPPLE NOISE) DC-20Mhz	50mV P-P	50mV P-P	75mV P-P	75mV P-P
OUTPUT POWER	500W	210W	20W	20W
OVERCURRENT SETPOINT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

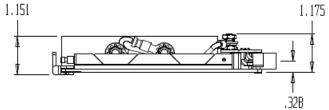
ENVIRONMENTAL SPECIFICATIONS*				
ALTITUDE	MIL-STD-810F	Method 500.1. Procedure 1		
HIGH TEMPERATURE	MIL-STD-810F	Method 501.4 Procedure 1 & 2		
LOW TEMPERATURE	MIL-STD-810F	Method 502.4 Procedure 1 & 2		
HUMIDITY	MIL-STD-202G	Method 103B		
FUNGUS	MIL-STD-810F	Method 508, Condition A		
SALT FOG	MIL-STD-202G	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			

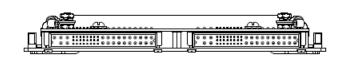
^{*}Designed to Meet











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