



# XP2184

6000 WATT 28VDC AC/DC SYSTEM



- 3 Phase, 208VAC, 47-63Hz System
- 6000 Watt System (3 2000 watt pods in parallel)
- Meets MIL-STD-461 Requirements
- Over-Voltage, and Over-Current Output Protection
- Meets MIL-STD-810 Environmental Specifications
- Designed For Ground Fixed Applications
- Built In Test, Input, and Output

## DESCRIPTION:

The XP2184 power supply was designed to meet the requirements of a ground Fixed application. This 6k watt power supply has 2,000 watt pods inside which are parallel to deliver 6,000 watts. The XP2184 was designed to be used in a forward base in the field. This power supply is easily modifiable for different output voltages. Please consult [Sales@Prime-Power.com](mailto:Sales@Prime-Power.com) if this is a requirement for your power supply.

<b>GENERAL SPECIFICATIONS</b>	
<b>INPUT VOLTAGE</b>	208VAC, 3 PHASE BALANCED SYSTEM, 90-260VAC
<b>FREQUENCY RANGE</b>	47-63HZ
<b>OUTPUT VOLTAGE</b>	28VAC
<b>OUTPUT CURRENT</b>	6000 WATTS
<b>PHYSICAL SIZE</b>	14.5" X 15.4" X 11.6"
<b>WEIGHT</b>	80 LBS.
<b>MTBF</b>	320 HOURS

<b>PHYSICAL CHARACTERISTICS</b>	
<b>MAXIMUM CASE SIZE</b>	14.5" X 15.4 " X 11.6"
<b>COOLING METHOD</b>	CONVECTION
<b>ENCAPSULATION</b>	N/A
<b>ENCLOSURE FINISH</b>	CARC COATED (IAW MIL-DTL-53072)
<b>BASEPLATE FINISH</b>	N/A
<b>INPUT/OUTPUT TERMINATION</b>	CIRCULAR MIL CONNECTORS
<b>MOUNTING</b>	SEE OUTLINE DRAWING
<b>WEIGHT</b>	80 LBS. MAX

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[SALES@PRIME-POWER.COM](mailto:SALES@PRIME-POWER.COM)

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<b><u>ELECTRICAL SPECIFICATIONS</u></b>	
LINE REGULATION (LO LINE TO HI LINE)	1%
LOAD REGULATION (1/2-FL W/SENSE)	1%
PARD (RIPPLE NOISE) DC-20MHZ	<300 mV p-p TYP.
OVERCURRENT SETPOINT	130% OF OUTPUT CURRENT
SHORT CIRCUIT CURRENT	AUTOMATIC RECOVERY
OVERVOLTAGE SET	140% OF OUTPUT VOLTAGE
TURN-ON OVERSHOOT	1% TYP.
EFFICIENCY (MIN)	73%
ISOLATION	500VDC I/O
EMI FILTERING	MIL-STD-461E, CE102, AND CE106
OUTPUT POWER	6000 WATTS

<b><u>ENVIRONMENTAL SPECIFICATIONS</u></b>		
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

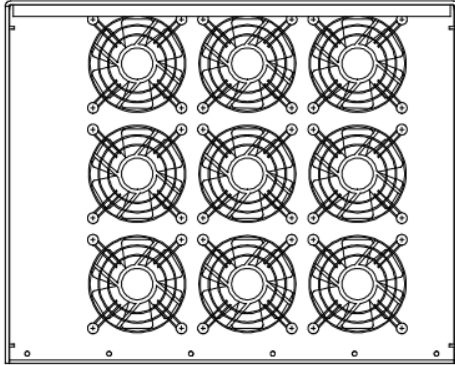
<b><u>TEMPERATURE SPECIFICATIONS</u></b>	
OPERATING TEMPERATURE	-46°C TO +50°C
STORAGE TEMPERATURE	-55°C TO +125°C
TEMPERATURE COEFFICIENT	.02%/°C



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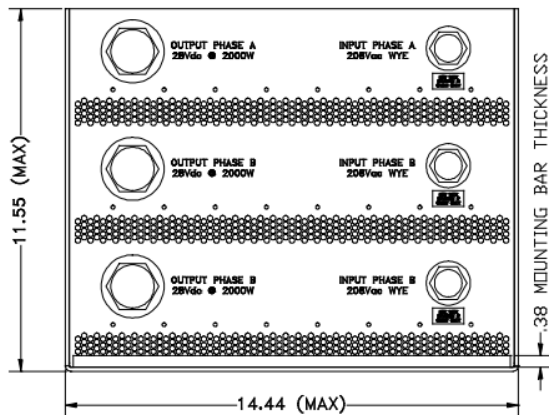
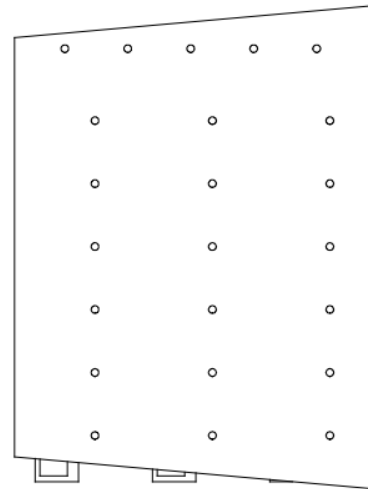
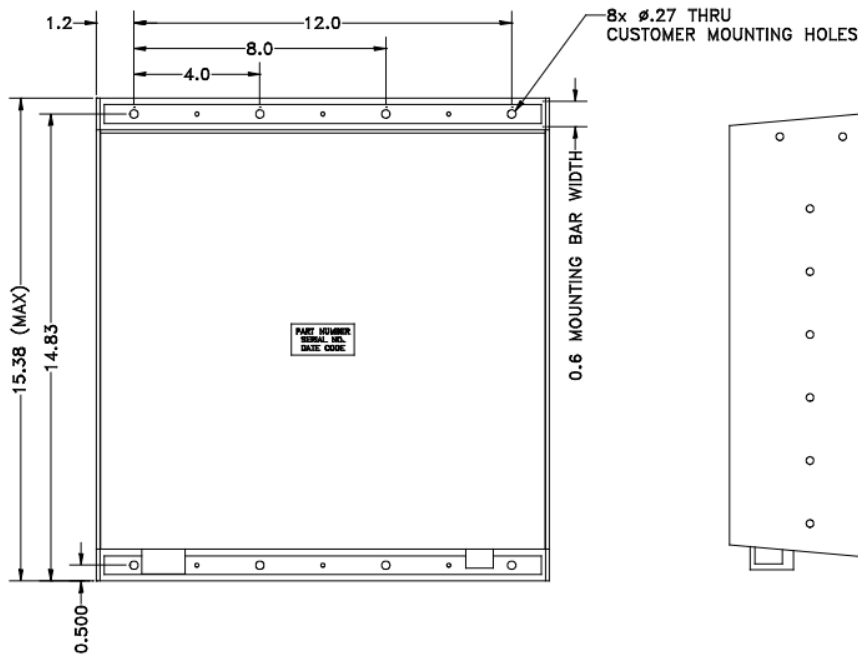
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#### NOTES:

- 1. ENCLOSURE MATERIAL: 6061-T6 ALUMINUM PER QQ-A-250/11
- 2. FINISH: YELLOW CHROMATE PER MIL-C-5541, CLASS 1A  
OUTSIDE SURFACE HAS CARC COATING IAW MIL-DTL-53072
- 3. INPUT CONNECTORS: MS3124E14-19P
- 4. OUTPUT CONNECTORS: MS3124E22-55S
- 5. INPUT VOLTAGE RANGE: 208VAC 3-PHASE (90-265VAC 1-PHASE)
- 6. OUTPUT VOLTAGE: 28.85V  $\pm$  3%
- 7. OUTPUT POWER: 6000W; LINEARLY DERATE BELOW 105VAC  
TO 4000W AT 90VAC
- 8. 50°C MAX. AMBIENT AIR TEMPERATURE



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