



XP2173

1000 WATT AC/DC POWER SUPPLY



- Power Factor of .95%
- Meets MIL-STD-1399 Requirements
- NAVMAT P-4855-1 Component Derating
- 3 Phase Input, +48VDC@1000W output
- Meets MIL-STD-810 Requirements
- High Efficiency Power Supply
- Designed For Naval Applications
- MIL-STD-461 Compliant

DESCRIPTION:

The XP2173 3 phase input 60 HZ power supply was developed for the stringent requirements of MIL-STD-1399 and MIL-STD-810 environmental requirements. The XP2173 delivers 1000 watts of power at +48VDC, along with having a .95 power factor. The power supply was designed using a NAVMAT P4855-1 guide lines for derating to achieve a high M.T.B.F. number. This product is easily modifiable for other output voltages. Please consult Sales@Prime-Power.com if this is a requirement for your power supply.

GENERAL SPECIFICATIONS	
INPUT VOLTAGE	115VAC, 3 PHASE
FREQUENCY RANGE	60 HZ
OUTPUT VOLTAGE	+48VDC
OUTPUT CURRENT	21 AMPS
PHYSICAL SIZE	15.035 X 5.75 X 10.1
WEIGHT	60LBS MAX
MTBF	172,000 HOURS

PHYSICAL CHARACTERISTICS	
MAXIMUM CASE SIZE	15.035 X 5.75 X 10.1
COOLING METHOD	CONDUCTION
ENCAPSULATION	N/A, CONFORMAL COAT
ENCLOSURE FINISH	YELLOW CHROMATE
BASEPLATE FINISH	YELLOW CHROMATE
INPUT/OUTPUT TERMINATION	D-SUB CONNECTORS
MOUNTING	SEE OUTLINE DRAWING
WEIGHT	<60 LBS.

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1 OWENS CT.
HAMPSTEAD NH, 03841.



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ELECTRICAL SPECIFICATIONS	
LINE REGULATION (LO LINE TO HI LINE)	±1%
LOAD REGULATION (1/2-FL W/SENSE)	1%
PARD (RIPPLE NOISE) DC-20MHZ	500mV p-p
OVERCURRENT SETPOINT	130% OF OUTPUT CURRENT
OVERVOLTAGE SET	120% OF OUTPUT VOLTAGE
TURN-ON OVERSHOOT	1% TYP.
EFFICIENCY (MIN)	80%
ISOLATION	1000VDC I/O
EMI FILTERING	MIL-STD-461, CE
OUTPUT POWER	1000 WATTS

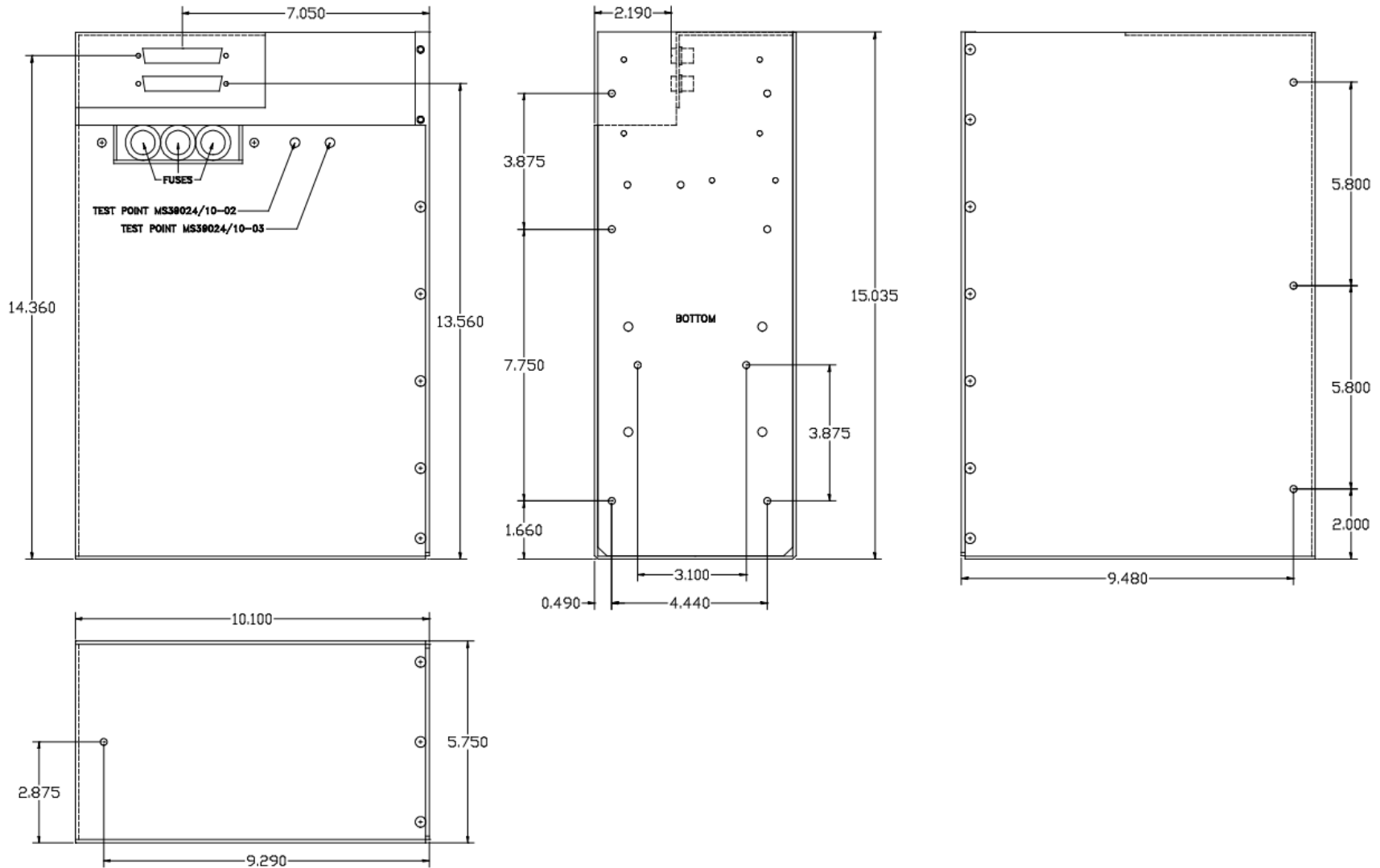
ENVIRONMENTAL SPECIFICATIONS		
ALTITUDE	MIL-STD-810F	Method 500.1, Procedure 1
HIGH TEMPERATURE	MIL-STD-810F	Method 501.4 Procedure 1 & 2
LOW TEMPERATURE	MIL-STD-810F	Method 502.4 Procedure 1 & 2
HUMIDITY	MIL-STD-202G	Method 103B
FUNGUS	MIL-STD-810F	Method 508, Condition A
SALT FOG	MIL-STD-202G	Method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

TEMPERATURE SPECIFICATIONS	
OPERATING TEMPERATURE	-46°C to +85°C
STORAGE TEMPERATURE	-55°C to +125°C
TEMPERATURE COEFFICIENT	.02%/°C



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