



XP2103

2000 WATT 19" RACK MOUNT AC /DC POWER SUPPLY



- MIL-STD-704A Compliant
- Operating Temperature Range -46°C To +85°C
- Input Transient Protection To MIL-STD-704A
- 19" Fully Redundant 14 Output Voltage Power Supply
- TTL On/Off Control
- MIL-STD-461 EMI Filtering
- Power OK Signals/LED For Each Output Voltage

DESCRIPTION:

The XP2103 was designed for a 19" rack mount system in an airborne refueler environment, but can be modified for use in other rugged military applications. The input voltage meets MIL-STD-704 requirements, as well as MIL-STD-461 requirements for EMI. This power supply is easily modifiable for different output voltages. Please consult Sales@Prime-Power.com if this is a requirement for your power supply.

GENERAL SPECIFICATIONS	
INPUT VOLTAGE	+95-132VAC
FREQUENCY RANGE	400HZ
OUTPUT VOLTAGE	14 OUTPUT VOLTAGES
OUTPUT CURRENT	2000 WATTS TOTAL
PHYSICAL SIZE	19 INCH RACK MOUNT
WEIGHT	<35LBS
MTBF	>40,000 HRS.

PHYSICAL CHARACTERISTICS	
MAXIMUM CASE SIZE	19 INCH RACK MOUNT SYSTEM
COOLING METHOD	CONVECTION
ENCAPSULATION	N/A
ENCLOSURE FINISH	YELLOW CHROMATE
BASEPLATE FINISH	YELLOW CHROMATE
INPUT/OUTPUT TERMINATION	CIRCULAR MIL CONNECTORS
MOUNTING	19" RACK MOUNT
WEIGHT	<35LBS



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<u>ELECTRICAL SPECIFICATIONS</u>	
LINE REGULATION (LO LINE TO HI LINE)	1%
LOAD REGULATION (1/2-FL W/SENSE)	1%
PARD (RIPPLE NOISE) DC-20MHZ	200Mv p-p MAX PER OUTPUT
OVERCURRENT SETPOINT	140% OF RATED CURRENT
SHORT CIRCUIT CURRENT	130% OF RATED CURRENT
OVERVOLTAGE SET	AUTO-RECOVERY, EACH OUTPUT
TURN-ON OVERSHOOT	2% TYP
EFFICIENCY (MIN)	75%
ISOLATION	500VDC I/O
EMI FILTERING	MIL-STD-461 CE03, C501, 02, 02
OUTPUT POWER	2000 WATTS

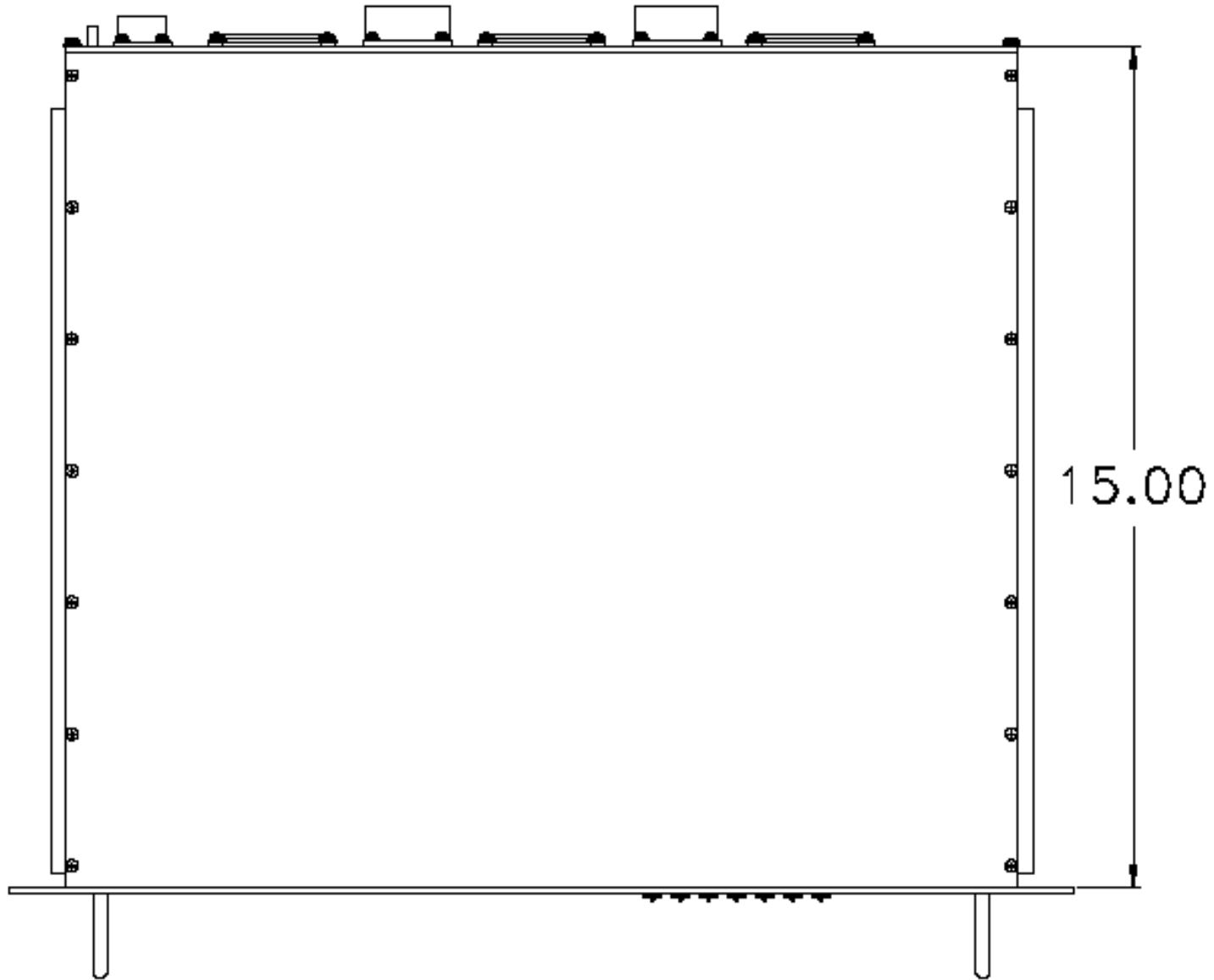
<u>ENVIRONMENTAL SPECIFICATIONS</u>		
ALTITUDE	MIL-STD-810F	Method 500.1, Procedure 1
HIGH TEMPERATURE	MIL-STD-810F	Method 501.4 Procedure 1 & 2
LOW TEMPERATURE	MIL-STD-810F	Method 502.4 Procedure 1 & 2
HUMIDITY	MIL-STD-202G	Method 103B
FUNGUS	MIL-STD-810F	Method 508, Condition A
SALT FOG	MIL-STD-202G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

<u>TEMPERATURE SPECIFICATIONS</u>	
OPERATING TEMPERATURE	-55°C to +95°C
STORAGE TEMPERATURE	-65°C to +125°C
TEMPERATURE COEFFICIENT	.02%/°C



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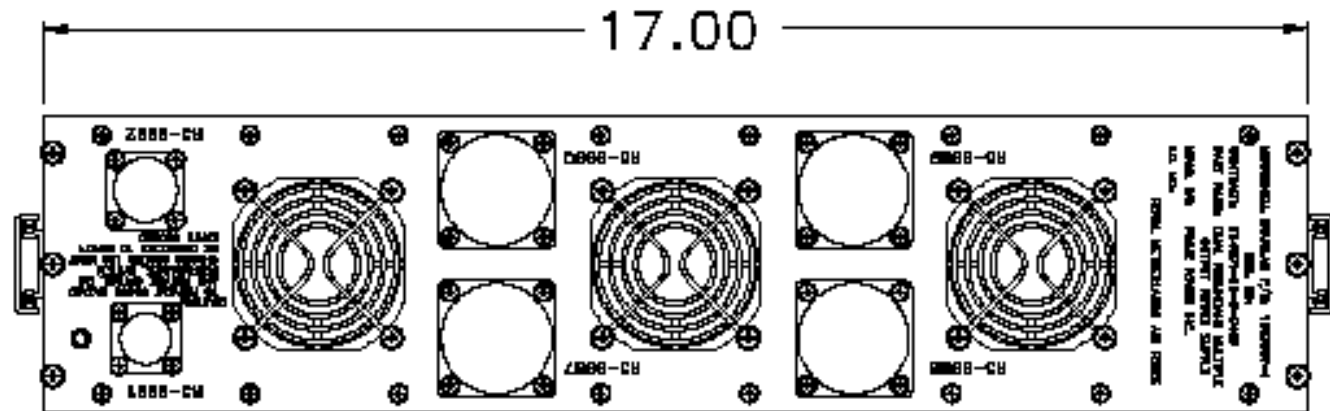
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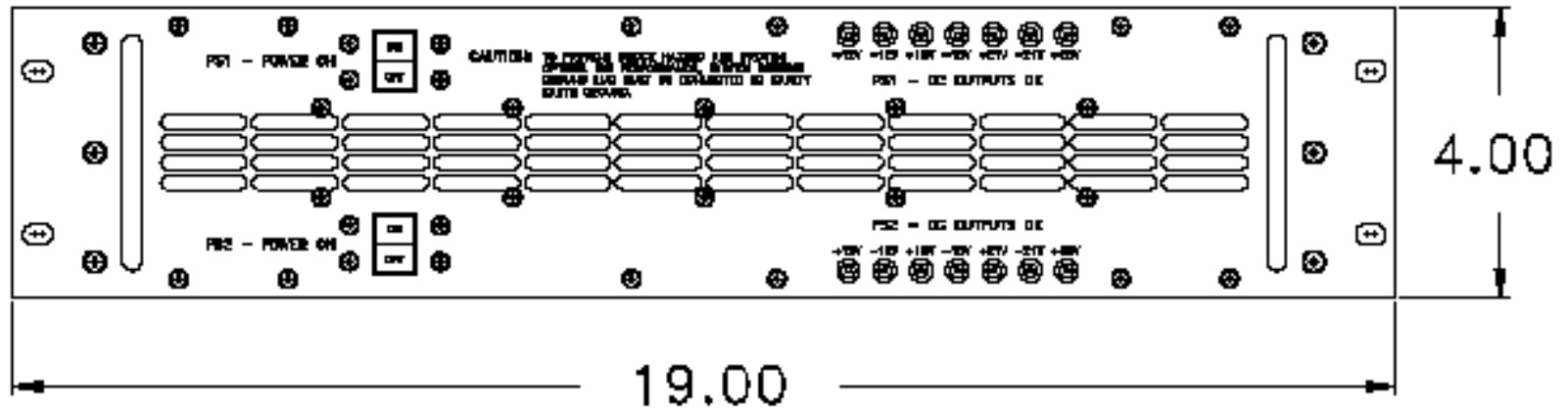
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