



XP2263

600W SINGLE PHASE AC/DC POWER SUPPLY



- Universal Frequency Range 47 - 63Hz / 360 - 800Hz
- Operates -40°C to +80°C Base Plate
- Ruggedized For MIL-STD-810 Requirements
- MIL-STD-704 and MIL-STD-1399 Compliant
- Meets MIL-STD-461 Requirements
- Over Current and Over Voltage Protection
- Less Than 1U in Height for System Integration
- High Efficiency

DESCRIPTION:

The XP2263 power supply is designed to be compact and ruggedized for military applications. This AC/DC Power Supply provides high output power with a high power factor over an input range of 85–264Vrms. The XP2263 series of power supply can be run in parallel and load share with additional XP2263 units (optional feature, contact sales@prime-power.com). Many features are incorporated that make it an ideal choice for use in Airborne, Shipboard, or Ground Fixed applications.

GENERAL SPECIFICATIONS	
INPUT VOLTAGE:	85-264Vrms
FREQUENCY RANGE:	47 - 63Hz / 360 - 800Hz
OUTPUT VOLTAGE:	30 VDC
OUTPUT POWER:	600 WATTS
PHYSICAL SIZE:	8.0" X 5.8" X 1.6"
WEIGHT:	< 4 LBS
MTBF:	CONTACT SALES@PRIME-POWER.COM TO SPECIFY ENVIRONMENT AND TEMPERATURE

*NOTE: () IN PART NUMBERS SHOW OPTIONAL CHARACTERS.

PHYSICAL CHARACTERISTICS		
MAXIMUM CASE SIZE	8.0" X 5.8" X 1.2"	
COOLING METHOD	CONDUCTION	
ENCAPSULATION	CONFORMAL COAT	
SUPPLY FINISH	YELLOW CHROMATE MIL-C-5541 CLASS 1A	
INPUT/OUTPUT TERMINATION	9 PIN MALE DSUB	25 PIN FEMALE DSUB
MOUNTING	THREADED BASE PLATE	



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ELECTRICAL SPECIFICATIONS	
INPUT VOLTAGE	85-264Vrms, 50/60/400HZ PER MIL-STD-704A AND MIL-STD-1399 (60HZ)
UNDERVOLTAGE LOCKOUT	30Vrms TYPICAL
INRUSH CURRENT	10Apk (25Apk, 230V, 400Hz)
POWER FACTOR	.99
ISOLATION	IN TO OUT & IN to CASE: 1500Vdc, OUT TO CASE: 500Vdc
ISOLATION RESISTANCE	100MOHM
EMI/EMC	DESIGNED TO MEET MIL-STD-461F: CE101, CE102
OUTPUT VOLTAGE	30VDC
OUTPUT POWER	600 WATTS
LINE/LOAD REGULATION	1% TYP. N.L. TO F.L.
PARD (RIPPLE/NOISE) DC-20MHZ	1% TYP. OF VOUT
CURRENT LIMIT	106-135% OF RATED CURRENT
SHORT CIRCUIT	INDEFINITE, AUTO RECOVERY
O.V.P.	112.5-137.5% VO, SHUTDOWN METHOD
LOAD STEP RECOVERY (50% - 75% - 50%)	1V, 1mS TYP.
OVER TEMPERATURE (BASEPLATE)	SHUTDOWN: 90°C TYP., AUTO RECOVERY: 85°C MIN.
EFFICIENCY	80%

ENVIRONMENTAL SPECIFICATIONS		
ALTITUDE	MIL-STD-810G	Method 500.5, Procedure 1 & 2
HIGH TEMPERATURE	MIL-STD-810G	Method 501.5, Procedure 1 & 2
LOW TEMPERATURE	MIL-STD-810G	Method 502.5, Procedure 1 & 2
HUMIDITY	MIL-STD-810G	Method 507.5, Procedure 2
FUNGUS	MIL-STD-810G	Method 508.6, Table 508.6-I
SALT FOG	MIL-STD-810G	Method 509.5, Storage
SAND AND DUST	MIL-STD-810G	Method 510.5, Procedure 1 & 2
EXPLOSIVE ATMOSPHERE	MIL-STD-810G	Method 511.5, Procedure 1
ACCELERATION	MIL-STD-810G	Method 513.6, Procedure 2
VIBRATION	MIL-STD-810G	Method 514.6, Procedure 1
SHOCK	MIL-STD-810G	Method 516.6, Procedure 1 & 6

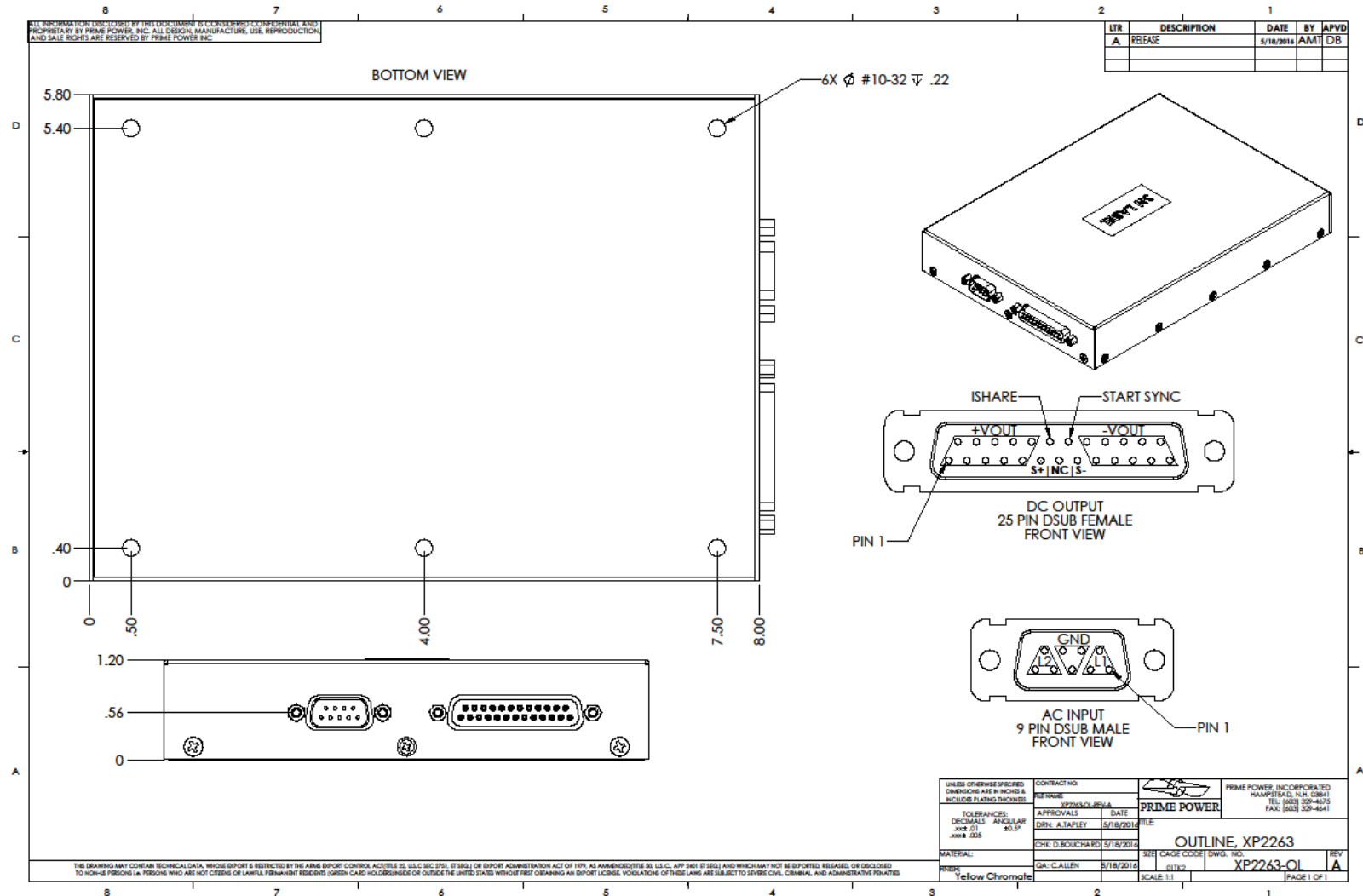
* These are typical tests performed on this or similar products.

TEMPERATURE SPECIFICATIONS	
OPERATING TEMPERATURE (BASEPLATE)	-40°C TO +85°C
STORAGE TEMPERATURE	-55°C TO +125°C
TEMPERATURE COEFFICIENT	.02%/°C



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