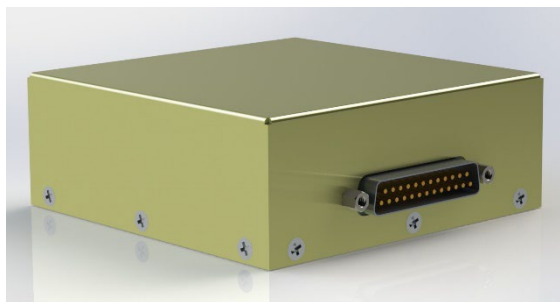




XP2255

200W DC/DC POWER SUPPLY, 16-40 VDC IN 28VDC OUT



- Full Metal Enclosure for Maximum EMI Shielding
- Operates -40°C to +80°C Base Plate
- Ruggedized For MIL-STD-810 Requirements
- Meets MIL-STD-704 Requirements.
- Meets MIL-STD-461 Requirements
- Over Current and Over Voltage Protection
- 13mS Hold Up Time @ 200 Watts

DESCRIPTION:

This DC/DC power supply is designed to be compact and ruggedized for military applications.

GENERAL SPECIFICATIONS

INPUT VOLTAGE:	16-40 VDC
OUTPUT VOLTAGE:	28VDC
OUTPUT CURRENT:	7A
OUTPUT POWER:	200 WATTS
PHYSICAL SIZE:	4.0" X 4.0" X 1.5"
WEIGHT:	< 3 LBS
MTBF:	CONTACT SALES@PRIME-POWER.COM TO SPECIFY ENVIRONMENT AND TEMPERATURE

PHYSICAL CHARACTERISTICS

MAXIMUM CASE SIZE	4.0" X 4.0" X 1.5"
COOLING METHOD	CONDUCTION
ENCAPSULATION	N/A CONFORMAL COAT.
SUPPLY FINISH	YELLOW CHROMATE MIL-C-5541 CLASS 1A
INPUT/OUTPUT TERMINATION	25 PIN FEMALE DSUB
MOUNTING	THREADED BASE PLATE

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PRIME POWER INC: (603) 329-4675.
1 OWENS CT.
HAMPSTEAD NH, 03841.



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ELECTRICAL SPECIFICATIONS	
INPUT VOLTAGE	16-40 VDC
UNDERVOLTAGE LOCKOUT	15VDC
ISOLATION	INPUT TO CASE AND OUTPUT: 1500Vdc, OUTPUT TO CASE: 500Vdc
ISOLATION RESISTANCE	100MOHM
EMI/EMC	DESIGNED TO MEET MIL-STD-461F: CE101, CE102
OUTPUT VOLTAGE:	28VDC
OUTPUT POWER	200 WATTS
LINE/LOAD REGULATION	1% TYP. N.L. TO F.L.
PARD (RIPPLE/NOISE) DC-20MHZ	1% TYP. OF VOUT
CURRENT LIMIT	11.8 - 13.9A
SHORT CIRCUIT	INDEFINITE, AUTO RECOVERY
O.V.P.	30.8-36.4 VDC, SHUTDOWN METHOD
LOAD STEP RECOVERY (50% - 75% - 50%)	<1% VOUT
OVER TEMPERATURE	SHUTDOWN: 125°C TYP., AUTO RECOVERY: 10°C HYSTERESIS
EFFICIENCY	78.5%

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

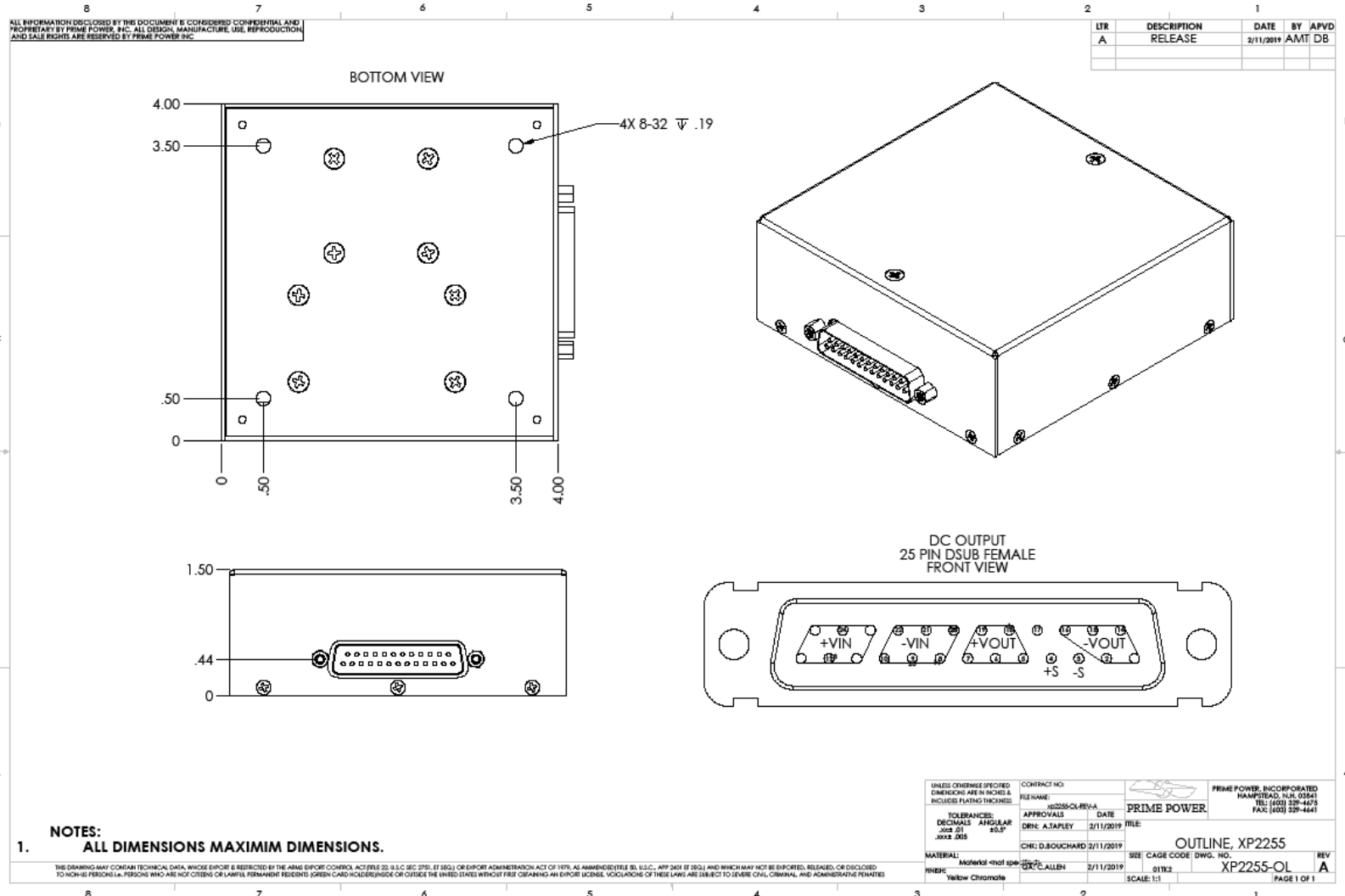
* These are typical tests performed on this or similar products.

TEMPERATURE SPECIFICATIONS	
OPERATING TEMPERATURE (BASEPLATE)	-40°C TO +85°C
STORAGE TEMPERATURE	-55°C TO +125°C
TEMPERATURE COEFFICIENT	0.02%/°C



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