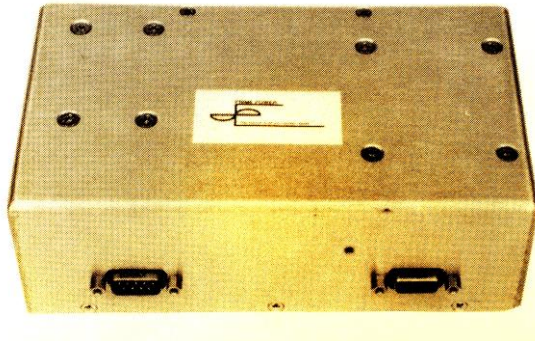




# XP2106

100 WATT TRIPLE OUTPUT DC/DC CONVERTER



- Multiple Output Power Supply
- Input Transient Protection 40VDC (1sec.)
- Output Protection Overvoltage AC Current
- M.T.B.F. >150,000 Hrs.
- NAVMAT Component Derating
- Low Output Ripple
- Operates Over Full Military Temperature Range
- Designed For Ground Mobile Application

**DESCRIPTION:**

The XP2106 multiple output DC/DC converter is a cost effective solution to ground mobile applications that is fully qualified to MIL-STD-810 environmental requirements. This power supply is easily modifiable to different output voltages.

| <b>GENERAL SPECIFICATIONS</b> |                        |          |          |
|-------------------------------|------------------------|----------|----------|
| <b>INPUT VOLTAGE</b>          | 16-36VDC               |          |          |
| <b>OUTPUT VOLTAGE</b>         | +5VDC                  | +5VDC    | +12VDC   |
| <b>OUTPUT CURRENT</b>         | 2.5 AMPS               | 2.5 AMPS | 6.5 AMPS |
| <b>PHYSICAL SIZE</b>          | 4.875" X 4.88" X 1.00" |          |          |
| <b>WEIGHT</b>                 | <3LBS.                 |          |          |
| <b>MTBF</b>                   | > 150,000 HRS.         |          |          |

| <b>PHYSICAL CHARACTERISTICS</b> |                      |
|---------------------------------|----------------------|
| <b>MAXIMUM CASE SIZE</b>        | 4.88" X 4.88" X 1.0" |
| <b>COOLING METHOD</b>           | CONDUCTION           |
| <b>ENCAPSULATION</b>            | N/A                  |
| <b>ENCLOSURE FINISH</b>         | YELLOW CHROMATE      |
| <b>BASEPLATE FINISH</b>         | YELLOW CHROMATE      |
| <b>INPUT/OUTPUT TERMINATION</b> | DSUB CONNECTORS      |
| <b>MOUNTING</b>                 | THREADED BASEPLATE   |
| <b>WEIGHT</b>                   | <3LBS                |



# XP2106

100 WATT TRIPLE OUTPUT DC/DC CONVERTER

| <b>ELECTRICAL SPECIFICATIONS</b>        |                                     |          |          |
|---|-------------------------------------|----------|----------|
| LINE REGULATION<br>(LO LINE TO HI LINE) | .5%                                 | .5%      | .5%      |
| LOAD REGULATION<br>(1/2-FL W/SENSE)     | .75%                                | .75%     | .75%     |
| PARA (RIPPLE NOISE)<br>DC-20MHZ         | 100mVp-p                            | 100mVp-p | 150mVp-p |
| OVERCURRENT SETPOINT                    | 140% EACH OUTPUT VOLTAGE            |          |          |
| OVERVOLTAGE SET                         | AUTO RECOVERY EACH OUTPUT VOLTAGE   |          |          |
| TURN-ON OVERSHOOT                       | 1% TYP.                             |          |          |
| EFFICIENCY (MIN)                        | 75%                                 |          |          |
| ISOLATION                               | 500VDC I/O                          |          |          |
| EMI FILTERING                           | MIL-STD-461, CE03, CS01, CS02, CS06 |          |          |
| OUTPUT POWER                            | 100 WATTS                           |          |          |

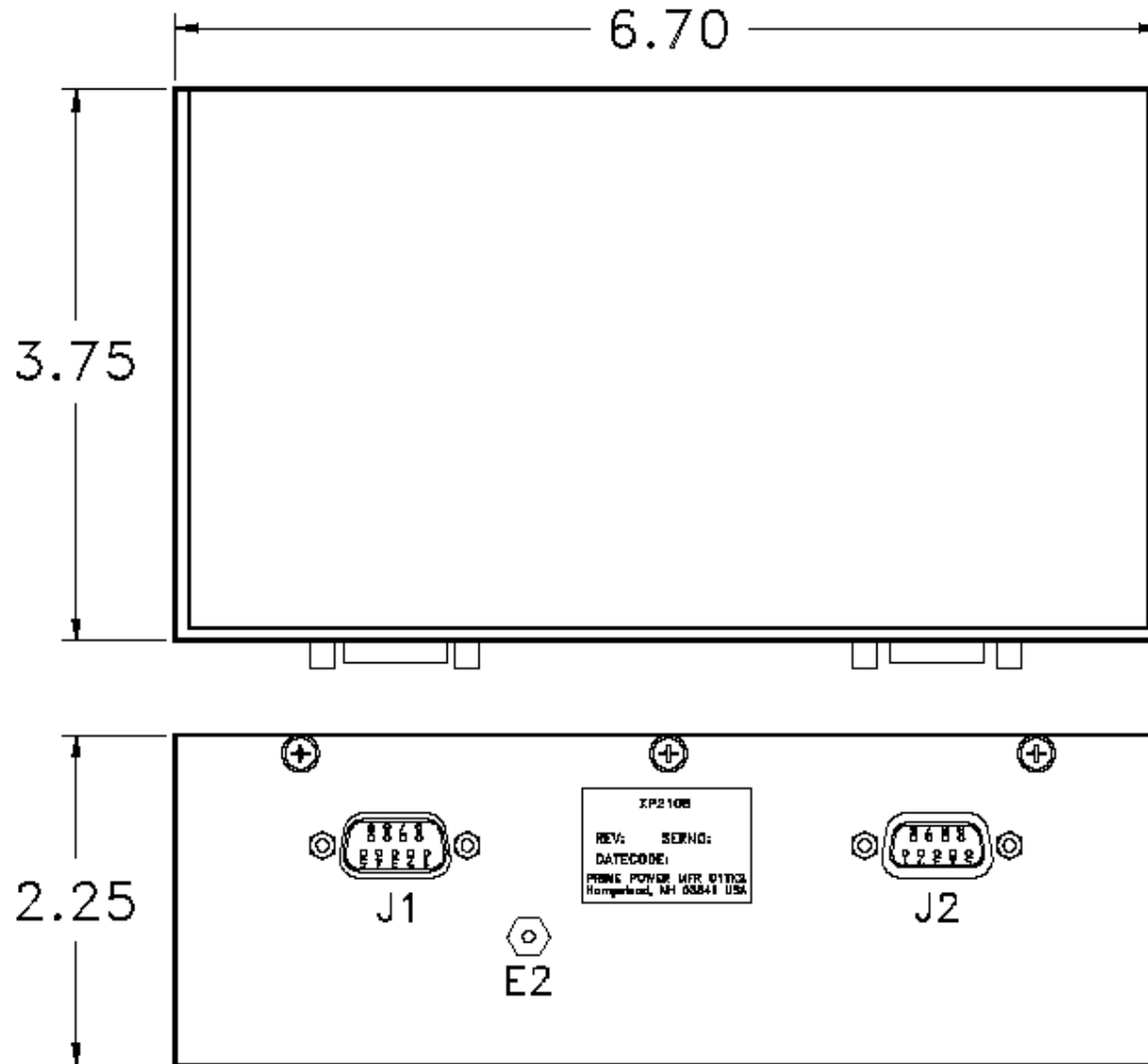
| <b>ENVIRONMENTAL SPECIFICATIONS</b> |              |                                |
|-------------------------------------|--------------|--------------------------------|
| PRESSURE-ALTITUDE                   | MIL-STD-810F | METHOD 501.1 PROCEDURE 1       |
| HIGH TEMPERATURE                    | 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>TEMPERATURE SPECIFICATIONS</b> |                |
|-----------------------------------|----------------|
| OPERATING TEMPERATURE             | -55°C TO 95°C  |
| STORAGE TEMPERATURE               | -65°C TO 125°C |
| TEMPERATURE COEFFICIENT           | 0.02%/°C       |



# XP2106

100 WATT TRIPLE OUTPUT DC/DC CONVERTER



[WWW.PRIME-POWER.COM](http://WWW.PRIME-POWER.COM)

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

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