

**XTDRSP-1500 SERIES  
1500 WATT SINGLE OUTPUT  
DC-DC CONVERTER  
11" x 5" x 3.3"  
RUGGED, HIGH POWER**

### APPLICATIONS

The XTDRSP series 1500W DC-DC Converter provides highly regulated output power from 1500 watts. Rugged construction and superior quality make this DC-DC Converter ideal for harsh environment applications. Available in standard, modified or fully custom configurations, for industrial, commercial, COTS, Ruggedized and Military applications.

### STANDARD FEATURES

- Full Range Input
- Low Noise and Ripple
- Built In DC Fan for Cooling
- Current Share Function
- DC Good Signals
- Remote On/Off & Remote Sense Functions
- Rugged Construction
- High Reliability/Superior Quality

### AVAILABLE OPTIONS

- Hot Swap
- Parallel Operation
- ORing Diode for Redundant Operation
- Rack / Panel Mount
- Ruggedized for Shock & Vibration
- Conformal Coating

### SAFETY AND EMISIONS

- Designed to meet UL/cUL60950-1
- Designed to meet TUV EN60950-1
- Designed to meet EN55022 (Class A)
- Designed to meet EN5024
- Designed to meet EN61000-3-2-3



### SPECIFICATIONS

#### INPUT SPECIFICATIONS:

Input: 125VDC (120-132VDC)  
Inrush Current: 40A max @ 1/2 cycle  
Efficiency: 85% typical (depending on output model)  
Hold-up time: 16ms at full load (minimum)

#### OUTPUT SPECIFICATIONS

Adjustment Range: -5/+10% (minimum)  
Minimum Load: none  
Regulation: Line  $\pm 1\%$  (except 5V $\pm 2.5\%$ ) line load and temperature  
Ripple/Noise: 150 -200mV peak to peak maximum (20 MHz)  
Set Point Accuracy:  $\pm 1\%$  (except 5V $\pm 2\%$ ) (maximum)  
Output voltage adj: -5/+10% minimum  
Overcurrent Protection: 105-135% automatic recovery  
Overvoltage Protection: 115-150% of V1 nominal

#### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: 0°C to +50°C Derate to 50% @ 70°C  
Storage Temperature: -40°C to +85°C max  
Cooling: Internal ball bearing DC fan  
Humidity: 20-90% RH non condensing  
Vibration: 10-500Hz, 2G 10min/1cycle for 60 min (3 axes)  
Shock: 20G Peak Acceleration  
Weight: Approx: 5.73lbs  
Size: 11" x 5" x 3.3"

## MODEL SELECTION

MODEL	VOLTAGE	CURRENT
XTDRSP-1500-5	5V	240A
XTDRSP-1500-12	12V	125A
XTDRSP-1500-15	15V	100A
XTDRSP-1500-24	24V	63A
XTDRSP-1500-27	27V	56A
XTDRSP-1500-48	48V	32A

## OPTION DESIGNATIONS

- ORD	Redundant Operation (N+1)
- PAR	Parallel Operation
- MIL	Ruggedized/Militarized
- RK	Rack Mount
- PNL	Panel Mount
- CC	Conformal Coating
- HSP	Hot Swap

## MECHANICAL OUTLINE

