

**TD RSP - 1500**  
**1500 WATT SINGLE OUTPUT**  
**SWITCHING POWER SUPPLIES**  
**11" x 5" x 3.3"**  
**POWER FACTOR CORRECTED**

### APPLICATIONS

The TD RSP series of Power Factor Corrected AC-DC power supplies provides highly regulated output power up to 1500 watts. Rugged construction and superior quality make this power supply ideal for harsh environment applications. Available in standard, modified or fully custom configurations, for industrial, commercial, COTS, ruggedized and Military applications.

### STANDARD FEATURES

- Universal AC Input (100-240 VAC)
- Active PFC for EN61000-3-2 Class D Compliance
- Built In DC Fan for Cooling
- Current Share Function
- AC & DC Good Signals
- Remote on/off & Remote Sense Functions
- High Efficiency ZVS Technology
- 12V / 100mA Auxiliary Output

### AVAILABLE OPTIONS

- Parallel Operation
- Redundant (N+1)
- Rack / Panel Mount
- Ruggedized for shock & vibration
- Hot Swap
- ORing Diode for Redundant Operation
- Conformal Coated

### SAFETY & EMISSIONS

- UL/cUL60950-1
- TUV EN60950-1
- CB Report (IEC 60950-1)
- CE Mmark (LVD)
- EN55022 Class B (CISPR 22 B)



### SPECIFICATIONS

#### INPUT SPECIFICATIONS:

Input: Universal AC Input Range 90-264VAC/127-370 VDC  
Input Frequency: 47-63Hz  
Inrush Current: 30A max @ 115VAC/60A max@230VAC(cold start)  
Input Current: 17A max @ 115VAC/8A max 230VAC (continuous)  
Efficiency: 80-91% typical (depending on output model)  
Hold-up time: 10ms-16ms at full load (minimum)  
Leakage Current: <2.0mA maximum @ 240 VAC  
Harmonics: EN 61000-3-2, -3 Class D Cmpliant (0.99 PF Typical)

#### 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: -20°C to +50°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  
Reliability >62.6K hours minimum  
per MIL -HDBK-217F (25°C)  
Weight: Approx: 5.73lbs



**NSF-ISR**

Registered  
to ISO 9001

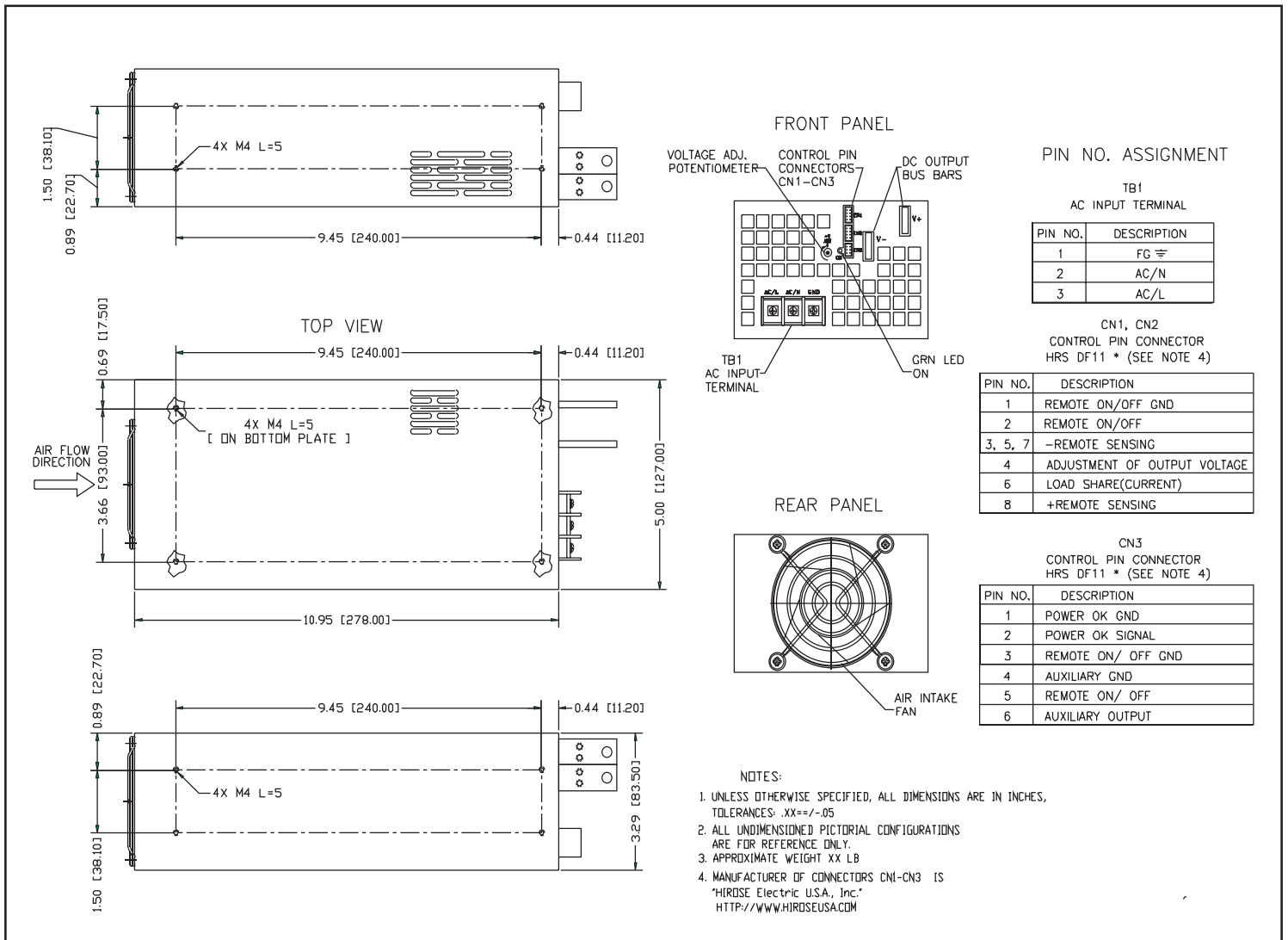
## MODEL SELECTION

MODEL	VOLTAGE	CURRENT
TD RSP-1500-5	5V	240A
TD RSP-1500-12	12V	125A
TD RSP-1500-15	15V	100A
TD RSP-1500-24	24V	63A
TD-RSP-1500-28	28V	55A
TD-RSP-1500-48	48V	32A

## OPTION DESIGNATIONS

- ORD	Redundant Operation (N+1)
- PAR	Parallel Operation
- MIL	Ruggedized/Militarized
- RK	Rack Mount
- PNL	Panel Mount
- 4Hz	400 Hz Operation
- CC	Conformal Coating
- HSP	Hot Swap

## MECHANICAL OUTLINE



Rev.A

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

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