

**TD RSP-3000 SERIES**  
**3000 WATT SINGLE OUTPUT**  
**SWITCHING POWER SUPPLIES**  
**10.95" x 7" x 2.5"**  
**POWER FACTOR CORRECTED**

### APPLICATIONS

The TD RSP-3000 series of Power Factor Corrected AC-DC power supplies provides highly regulated output power to 3000 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

- High Efficiency Up to 90%
- Active PFC for EN61000-3-2, -3 PF>0.95%
- AC Input 180-264 VAC
- Built In DC Fan for Cooling
- Current Share Function
- AC & DC Good Signals
- Remote on/off & Remote Sense Functions
- 12V / 100 mA Auxiliary Output

### AVAILABLE OPTIONS

- Hot Swap
- Parallel Operation
- ORing Diode for Redundant Operation
- Rack / Panel Mount
- Ruggedized for shock & vibration
- 400 Hz Operation
- Conformal Coated

### SAFETY AND EMISSIONS

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



### SPECIFICATIONS

#### INPUT SPECIFICATIONS

Input: Universal AC Input Range 180-264VAC/254-370VDC  
Input Frequency: 47-63Hz  
Inrush Current: 60A at 230VAC (cold start)  
Input Current: 20A/180VAC, 16A/230VAC  
Efficiency: 86-90% typical (depending on output model)  
Hold-up time: 10ms at full load (minimum)  
Leakage Current: <2.0 mA maximum @ 240 VAC  
Harmonics: EN 61000-3-2, -3 Class D Compliant (0.99 PF Typical)

#### OUTPUT SPECIFICATIONS

Adjustment Range:  $\pm 10\%$  (minimum)  
Minimum Load: none  
Regulation: Line  $\pm 0.5\%$  Load  $\pm 0.5\%$   
Ripple/Noise: 150 - 200mV peak to peak maximum (20 MHz)  
Set Point Accuracy:  $\pm 1\%$  (except 5V =  $\pm 2\%$ ) (maximum)  
Output voltage adj:  $\pm 10\%$  minimum  
Overcurrent Protection: 100-112% of rated output power.  
Overvoltage Protection: 115 -150% of V1 nominal  
Overtemperature Protection: Heatsink Temp 90°C  $\pm 5^\circ\text{C}$  Auto Recovery.

#### 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 10 min  
■ 1 cycle for 60 min (3 axes)  
Shock: 20 G Peak Acceleration  
Weight: Approx.: 7.5 LBS  
Size: 10.94" x 7.0" x 2.5"

# MODEL SELECTION

MODEL NUMBER	VOLTAGE	CURRENT
TD RSP-3000-12	12V	200A
TD RSP-3000-24	24V	125A
TD RSP-3000-28	28V	107A
TD RSP-3000-48	48V	62A

NOTE: OTHER VOLTAGES & CURRENTS AVAILABLE. CONSULT THE FACTORY.

# OPTION DESIGNATIONS

- HSP	Hot Swap
- ORD	Redundant Operation
- PAR	Parallel Operation
- CC	Conformal Coating

- MIL	Ruggedized/Militarized
- PNL	Panel Mount
- RK	Rack Mount
- 400Hz	400 Hz Operation

# MECHANICAL OUTLINE

