

TD RSP-1000 SERIES
1000 WATT SINGLE OUTPUT
SWITCHING POWER SUPPLIES
11.61" x 5" x 1.61"
POWER FACTOR CORRECTED

APPLICATIONS

The TD RSP-1000 series of Power Factor Corrected AC-DC power supplies provides highly regulated output power to 1000 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 / Full Range
- Full Range
- Built In DC Fan for Cooling
- Current Share Function
- DC Good Signal
- Remote On/Off & Remote Sense Functions
- 5V / 0.5A Auxiliary Output

AVAILABLE OPTIONS

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

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 90-264VAC/127-370VDC
Input Frequency: 47-63Hz
Inrush Current: 25A max at 115VAC/40A at 230 VAC (cold start)
Input Current: 12A max @ 115VAC 6A max @ 230VAC
Efficiency: 83-90% typical (depending on output model)
Hold-up time: 16ms at full load (minimum)
Leakage Current: <2.0mA 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: 150mV peak to peak maximum (20 MHz)
Set Point Accuracy: $\pm 1\%$ (except 5V $\pm 2\%$) (maximum)
Output voltage adj: $\pm 10\%$ minimum
Overcurrent Protection: 105-125% automatic recovery Constant Current
Overvoltage Protection: 115-140% 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. Derate to 50% at +70°C
Storage Temperature: -40°C to +85°C max 95% Relative Humidity
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: 4 LBS
Size: 11.61" x 5" x 1.61"

AS 9100

BUREAU VERITAS
Certification
Certificate No: US008267-1



MODEL SELECTION

MODEL NUMBER	VOLTAGE	CURRENT
TD RSP-1000-12	12V	60A
TD RSP-1000-15	15V	50A
TD RSP-1000-24	24V	40A
TD RSP-1000-28	28V	37A
TD RSP-1000-48	48V	21A

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
-4Hz	400 Hz Operation

MECHANICAL OUTLINE

