

TD RSP-2000 SERIES
2000 WATT SINGLE OUTPUT
SWITCHING POWER SUPPLIES
11.61" x 5" x 1.61"
POWER FACTOR CORRECTED

APPLICATIONS

The TD RSP-2000 series of Power Factor Corrected AC-DC power supplies provides highly regulated output power to 2000 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
- 5V / 0.5A Auxiliary Output
- 12V / 0.5A 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 90-264VAC/127-370VDC
Input Frequency: 47-63Hz (400 Hz Optional)
Inrush Current: 25A max at 115VAC/50A at 230 VAC (cold start)
Input Current: 16A max @ 115VAC 10A 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)
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. $90^{\circ}\text{C} \pm 5^{\circ}\text{C}$ Auto Recovery

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: -25°C to $+50^{\circ}\text{C}$. Derate to 50% at $+70^{\circ}\text{C}$
Storage Temperature: -40°C to $+85^{\circ}\text{C}$ 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"

MODEL SELECTION

MODEL NUMBER	VOLTAGE	CURRENT
TD RSP-2000-12	12V	100A
TD RSP-2000-24	24V	80A
TD RSP-2000-28	28V	71A
TD RSP-2000-48	48V	42A

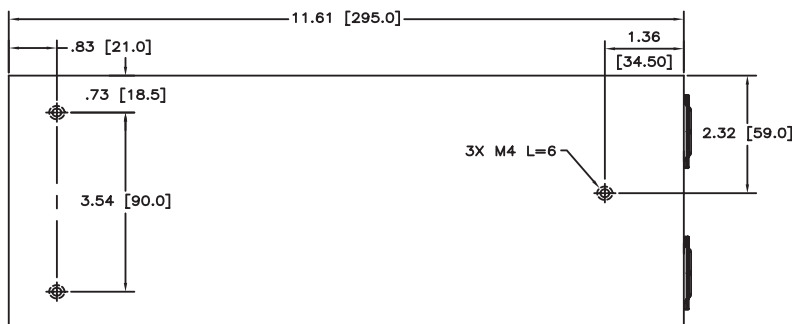
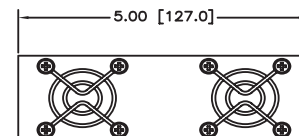
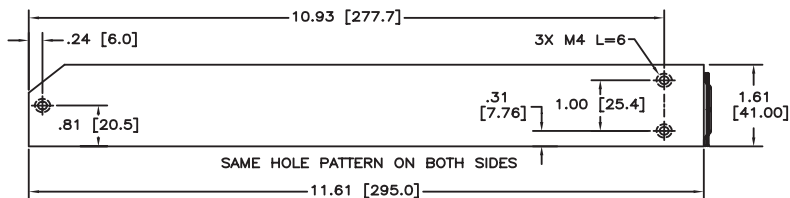
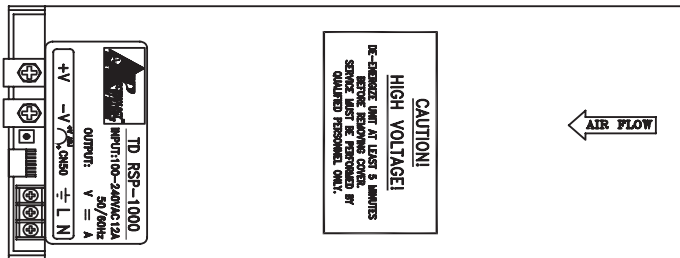
NOTE: OTHER VOLTAGES & CURRENTS AVAILABLE. CONSULT THE FACTORY.
INPUT VOLTAGE RANGE DETERMINE OUTPUT POWER
CONTACT FACTORY FOR ADDITIONAL INFORMATION.

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



CONTROL CONNECTOR
JST PHDR-12VS OR EQUIVALENT

PIN NO.	DESCRIPTION
1	+ SENSE
2	- SENSE
3	PV
4	GND
5	DC OK
6	T-ALARM
7	ON / OFF
8	GND-AUX
9	GND-AUX
10	GND-AUX
11	+5V AUX
12	+12V AUX

3. APPROXIMATE WEIGHT: 4.1 LBS.