APPLIED POWER CONVERSION
Division of
TECHNOLOGY DYNAMICS INC.

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 & EMISIONS

- 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 Cpmliant (0.99 PF Typical)

OUTPUT SPECIFICATIONS

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

AS 9100
BUREAU VERITAS
Certification
Certificate No: US008267-1

Design Excellence since 1976!

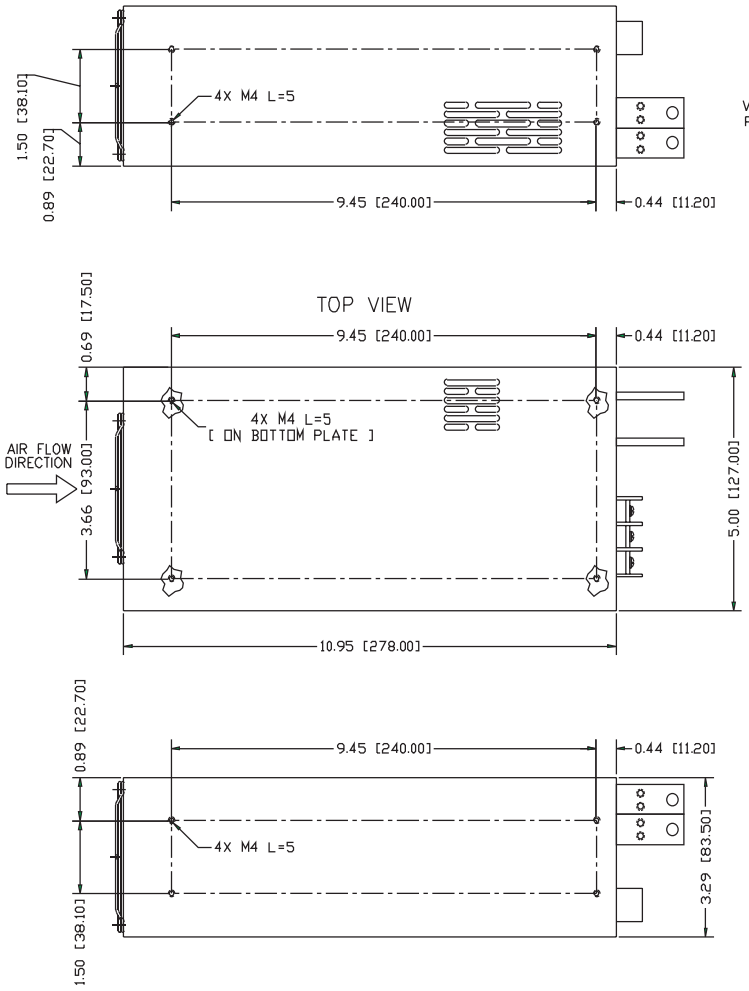
MODEL SELECTION

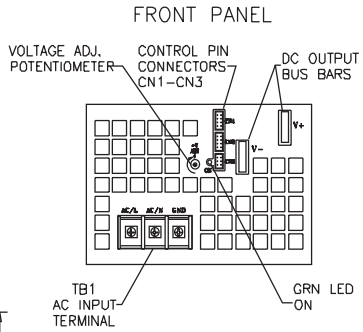
MODEL	VOLTAGE	CURRENT
TD RSP-1500-5	5V	240A
TD RSP-1500-12	12V	125A
TD RSP-1500-15	15V	100A
TD RSP-1500-24	24V	63A
TD-RSP-1500-28	28V	55A
TD-RSP-1500-48	48V	32A

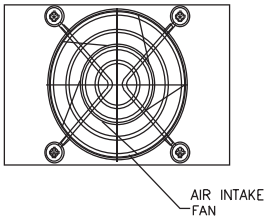
OPTION DESIGNATIONS

- 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







PIN NO. ASSIGNMENT

TB1
AC INPUT TERMINAL

PIN NO.	DESCRIPTION
1	FG ⏚
2	AC/N
3	AC/L

CN1, CN2
CONTROL PIN CONNECTOR
HRS DF11 * (SEE NOTE 4)

PIN NO.	DESCRIPTION
1	REMOTE ON/OFF GND
2	REMOTE ON/OFF
3, 5, 7	-REMOTE SENSING
4	ADJUSTMENT OF OUTPUT VOLTAGE
6	LOAD SHARE(CURRENT)
8	+REMOTE SENSING

CN3
CONTROL PIN CONNECTOR
HRS DF11 * (SEE NOTE 4)

PIN NO.	DESCRIPTION
1	POWER OK GND
2	POWER OK SIGNAL
3	REMOTE ON/ OFF GND
4	AUXILIARY GND
5	REMOTE ON/ OFF
6	AUXILIARY OUTPUT

NOTES:

1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES, TOLERANCES: .XX=+/-.05
2. ALL UNDIMENSIONED PICTORIAL CONFIGURATIONS ARE FOR REFERENCE ONLY.
3. APPROXIMATE WEIGHT XX LB
4. MANUFACTURER OF CONNECTORS CN1-CN3 IS "HIROSE Electric U.S.A., Inc." HTTP://WWW.HIROSEUSA.COM

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