

TDSRP SERIES

3500 WATT SINGLE OUTPUT SWITCHING POWER SUPPLIES

5.25" x 5.40" x 15.00"
POWER FACTOR CORRECTED

APPLICATIONS

The TDSRP series of Power Factor Corrected AC-DC power supplies provides highly regulated output power to 3500 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

- 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

- Hot Swap
- Parallel Operation
- ORing Diode for Redundant Operation
- Rack / Panel Mount
- Ruggedized for shock & vibration
- Low Voltage Battery Disconnect for Battery Back-up
- 400Hz Operation
- EMI/RFI Reduction
- 3 Phase Input

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 Mmark (LVD)
- Designed to meet EN55022 Class 0B (CISPR 22 B)



SPECIFICATIONS

INPUT

Input: 180-264VAC 1Ø or 3Ø
Input Frequency: 47-63Hz
Inrush Current: 60A at 230VAC (cold start)
Input Current: 33 A / 220 VAC 1Ø
Efficiency: 86-90% typical (depending on output model)
Leakage Current: <2.0 mA maximum @ 240 VAC
Harmonics: EN 61000-3-2, -3 Class D Compliant (0.99 PF Typical)

OUTPUT

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)
Overcurrent Protection: 100-112% of rated output power. Shut Down Repower
Overvoltage Protection: 115 -150% of V1 nominal
Overtemperature Protection: Heatsink Temp 90°C $\pm 5^\circ\text{C}$ Auto Recovery.
Hold-up time: 10ms at full load (minimum)

ENVIRONMENTAL

Operating Temperature: - 35°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 / 1cycle for 60 min (3 axes)
Shock: 20 G Peak Acceleration
Weight: Approx.: 20 LBS
Size: 5.25" x 5.40" x 15.00"

MODEL SELECTION

MODEL NUMBER	VOLTAGE	CURRENT
TDSRP-3500-24	24 V	146 A
TDSRP-3500-28	28 V	125 A
TDSRP-3500-48	48 V	73 A

OPTIONAL DESIGNATIONS

- HSP	Hot Swap	- MIL	Ruggedized/Militarized
- ORD	Redundant Operation	- PNL	Panel Mount
- PAR	Parallel Operation	- LVBD	Battery Back-up
- RK	Rack Mount	- EMI	EMI/RFI Reduction
- 3P	3 Phase Input	- 400	400 Hz Operation

MECHANICAL OUTLINE

