TDST-10000 SERIES 10000 WATT SINGLE OUTPUT SWITCHING POWER SUPPLIES

21.25" x 16.70" x 3.28"
POWER FACTOR CORRECTED, HIGH EFFICIENCY

APPLICATIONS

The TDST-10000 Series of High Power Switching Power Supplies provides up to 10000 Watts of output power. Output Voltage and Current are adjustable making this Switching Power Supply ideal for Flexible, Reliable, Power Systems in OEM, Industrial and Laboratory applications. Available in stand alone or Rack Mount versions. Easily Customized or Modified to fit your exact needs.



STANDARD FEATURES

- Wide AC Input Range
- High Efficiency
- Programmable output Voltage ($20\% \sim 120\%$)
- Programmable output Current (20% ~ 100%)
- Forced Current Sharing at parallel operation
- Power Factor Corrected
- Compact Size
- Forced Current Sharing
- Remote ON / OFF, Remote sense function
- Protection: OVP, OLP, OTP, SCP, Fan Failure
- Parallel Operation

AVAILABLE OPTIONS

- Redundant Operation
- Ruggedized for Shock & Vibration
- 400Hz Operation
- Conformal Coating

SAFETY AND EMISSIONS

- Meets UL/cUL60950-1; EN 60950-1
- Meets EN55022; EN61204-3;
- Meets EN61000-3-2; EN61000-3-3
- Meets EN55024:
- Meets EN61000-6-1

EN61000-4-2, 3, 4, 5, 6, 8, 11;

SPECIFICATIONS

INPUT SPECIFICATIONS:

Input: AC Input Range 196-305VAC 3Ø Δ, 340-530VAC 3Ø Y

Input Frequency: 47-63Hz

Inrush Current: 100A / 230VAC, 150 A / 400 VAC Input Current: 30A / 230VAC, 18A / 400VAC

Efficiency: 88-91% typical (depending on output model)

Hold-Up Time: 20ms at full load (minimum) Leakage Current: < 7 mA maximum @ 305 VAC

Harmonics: EN 61000-3-2, -3 Class D Compliant (0.95 PF Typical)

OUTPUT SPECIFICATIONS

Adjustment Range: 24V (23.5 - 28.8), 36V (35-43.2), 48V (47 - 57.6)

Minimum Load: none

Regulation: Line $\pm 1\%$ Load $\pm .5\%$

Ripple/Noise: 150 mV peak to peak maximum (20 MHz)

Overcurrent Protection: 105% of rated output power constant current limit.

Overvoltage Protection: 120% Vout

Overtemperature Protection: Heatsink Temp 85° C $\pm 5^{\circ}$ C Auto Recovery.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: - 30°C to + 50°C. (Full Output Power)

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.: 55 lbs

Size: 21.25" x 16.70" x 3.28"



MODEL SELECTION

MODEL NUMBER	VOLTAGE	CURRENT
TDST-10000-24	24V	0 - 400A
TDST-10000-36	36V	0 - 276A
TDST-10000-48	48V	0 - 210A

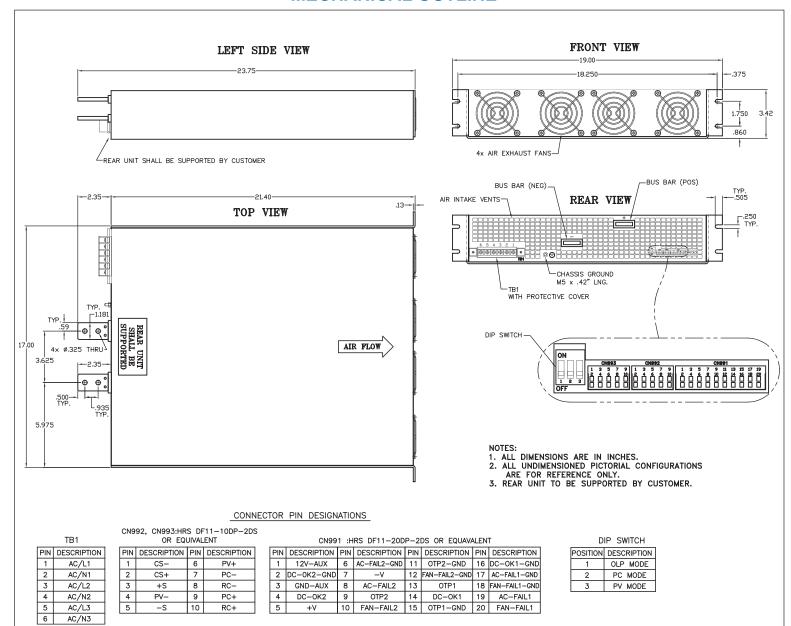
NOTE: OTHER VOLTAGES & CURRENTS AVAILABLE. CONSULT THE FACTORY.

OPTION DESIGNATIONS

- ORD	Redundant Operation
- CC	Conformal Coating

- MIL	Ruggedized/Militarized
- 400Hz	400 Hz Operation

MECHANICAL OUTLINE



Rev R