## TECHNOLOGY DYNAMICS INC.

# NTDX-6000 SERIES 6000 WATT SINGLE OUTPUT SWITCHING POWER SUPPLIES

5.2" x 8" x 12.5"
POWER FACTOR CORRECTED

## **APPLICATIONS**

The NTDX-6000 series of Power Factor Corrected AC-DC power supplies provides highly regulated bulk power to 6000 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

- High Efficiency Up to 90%
- Active PFC for EN61000-3-2, -3 PF>0.95%
- AC Input 180-264 VAC 1Ø or 3Ø
- Built In DC Fan for Cooling
- · Current Share Function
- AC & DC Good Signals
- Remote on/off & Remote Sense Functions
- 12V / 100 mA 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)



### **INPUT SPECIFICATIONS:**

Input:Universal AC Input Range 180-264VAC/254-370VDC

Input Frequency: 47-63Hz

Inrush Current: 60A at 230VAC (cold start)
Input Current: 20A/180VAC,16A/230VAC

Efficiency: 86-90% typical (depending on output model)

Hold-up time: 10ms at full load (minimum) Leakage Current: <2.0 mA maximum @ 240 VAC

Harmonics: EN 61000-3-2, -3 Class D Compliant (0.99 PF Typical)

### **OUTPUT SPECIFICATIONS**

Adjustment Range: ± 10% (minimum)

Minimum Load: none

Regulation: Line ±0.5% Load ±0.5%

Ripple/Noise: 150 - 200mV peak to peak maximum (20 MHz) Set Point Accuracy:  $\pm 1\%$  (except  $5V = \pm 2\%$ ) (maximum)

Output voltage adj: ±10% minimum

Overcurrent Protection: 100-112% of rated output power. Overlyoltage Protection: 115 -150% of V1 nominal

Overtemperature Protection: Heatsink Temp 90°C ± 5°C Auto Recovery.

#### **ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature:  $-20^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$ . Storage Temperature:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  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.: 17 LBS Size: 5.2" x 8" x 12.5"



# **MODEL SELECTION**

MODEL NUMBER	VOLTAGE	CURRENT
NTDX-6000-12	12V	400A
NTDX-6000-24	24V	250A
NTDX-6000-28	28V	214A
NTDX-6000-48	48V	124A

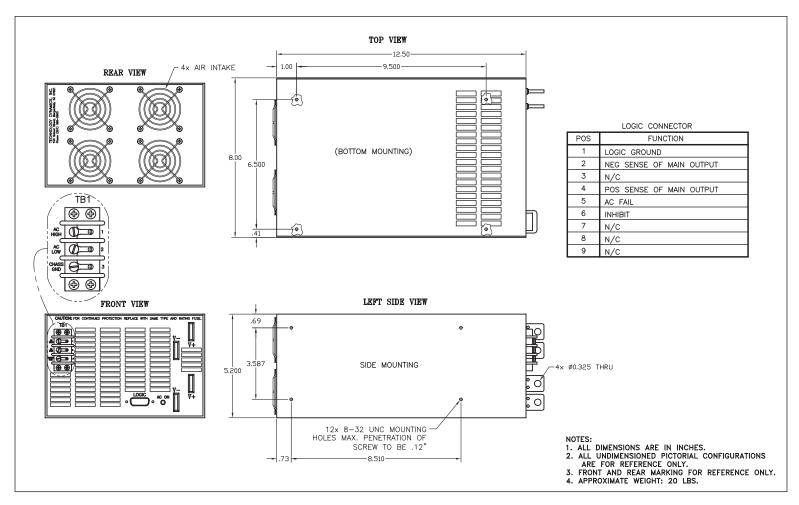
NOTE: OTHER VOLTAGES & CURRENTS AVAILABLE. CONSULT THE FACTORY.

# **OPTION DESIGNATIONS**

- HSP	Hot Swap
- ORD	Redundant Operation
- PAR	Parallel Operation
- CC	Conformal Coating

- MIL	Ruggedized/Militarized
- PNL	Panel Mount
- RK	Rack Mount
- 400Hz	400 Hz Operation

# **MECHANICAL OUTLINE**



SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE