# NTDX-6000 SERIES

## 6000 WATT SINGLE

## SWITCHING POWER SUPPLIES

12.75" x 8.00" x 5.00"

#### 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
- 12V / 100 mA Auxiliary Output

#### **AVAILABLE OPTIONS**

- Hot Swap
- Parallel Operation
- ORing Diode for Redundant Operation
- Rack/Panel Mount
- Ruggedized For Shock & Vibration
- Conformal Coating
- 400 Hz Operation

## SAFETY AND EMISSIONS (DESIGNED TO MEET)

- 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**

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: ± 10% (minimum)

Minimum Load: none

Regulation: Line ±0.5% Load ±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 ± 5°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: 5.00" x 8.00" x 12.75"



Registered

www.technologydynamicsinc.com



#### **MODEL SELECTION**

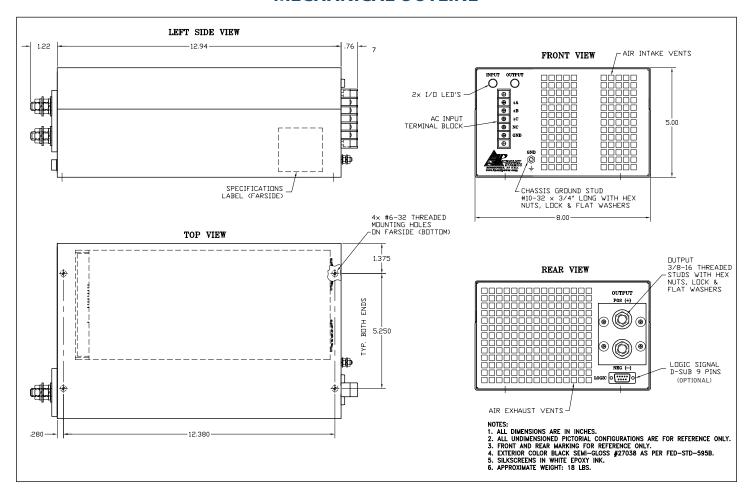
MODEL NUMBER	VOLTAGE	CURRENT
NTDX-6000-24	24 V	240 A
NTDX-6000-28	28 V	214 A
NTDX-6000-48	48 V	124 A

#### **OPTIONAL DESIGNATIONS**

- HSP	Hot Swap
- ORD	Redundant Operation
- CC	Conformal Coating
- MIL	Ruggedized / Militarized

- PNL	Panel Mount
- RK	Rack Mount
- PAR	Parallel Operation
- 400Hz	400 Hz Operation

#### **MECHANICAL OUTLINE**



www.technologydynamicsinc.com