

NTDX-6000 SERIES
6000 WATT SINGLE OUTPUT
SWITCHING POWER SUPPLIES
5.2" x 8" x 12.75"
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
- 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)

SPECIFICATIONS

INPUT SPECIFICATIONS:

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 SPECIFICATIONS

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)
Hold-up time: 10ms at full load (minimum)
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.

ENVIRONMENTAL SPECIFICATIONS

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: 5.2" x 8" x 12.75"

MODEL SELECTION

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

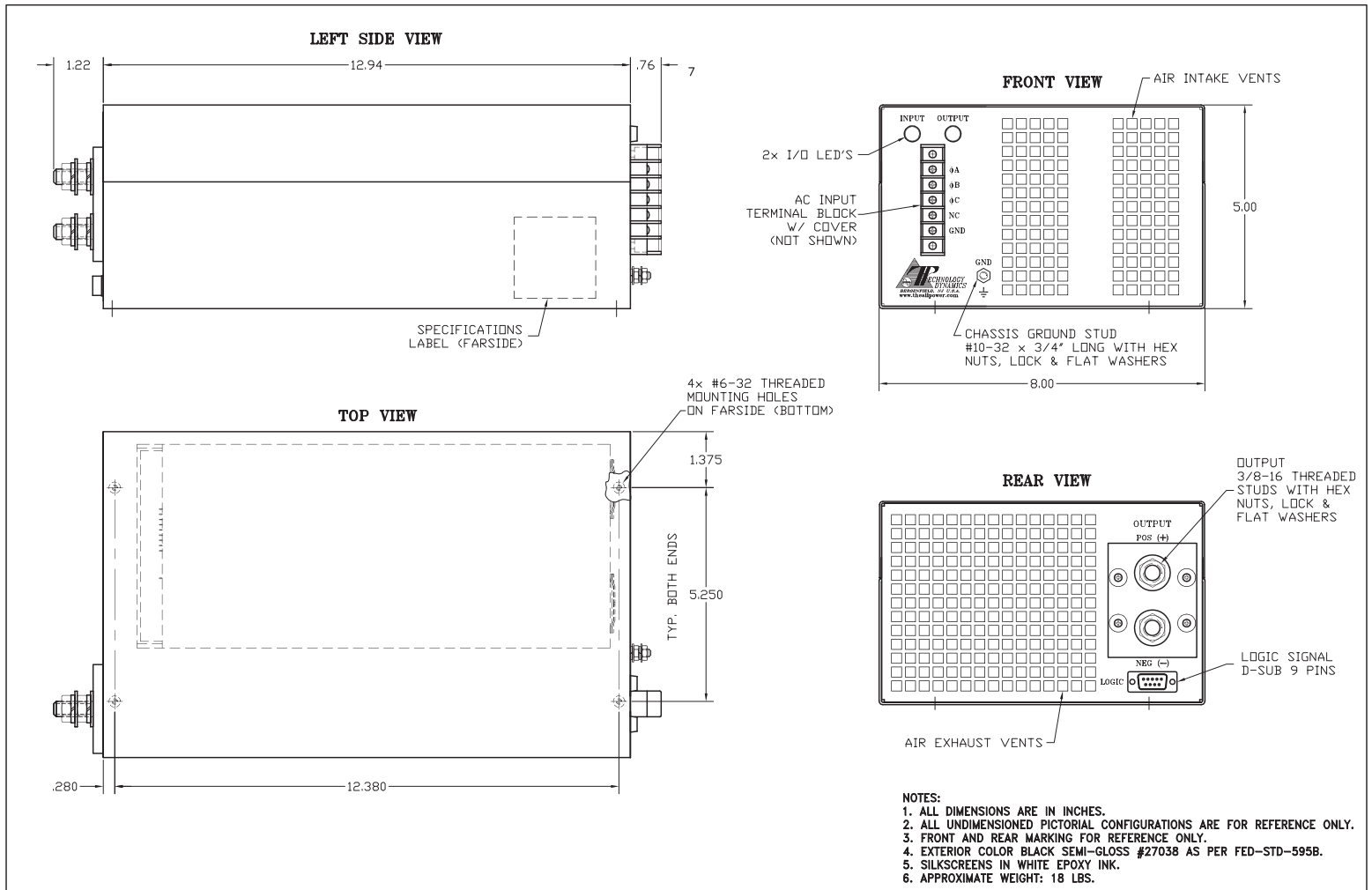
NOTE: OTHER VOLTAGES & CURRENTS AVAILABLE. CONSULT THE FACTORY.

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



Rev.A

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

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