

# 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:  $\pm 10\%$  (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: 5.00" x 8.00" x 12.75"



## 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	- PNL	Panel Mount
- ORD	Redundant Operation	- RK	Rack Mount
- CC	Conformal Coating	- PAR	Parallel Operation
- MIL	Ruggedized / Militarized	- 400Hz	400 Hz Operation

## MECHANICAL OUTLINE

