

NTDR SERIES
1500-3000 WATT SINGLE OUTPUT
270VDC SWITCHING POWER SUPPLIES
5" x 8" x 15.6"
POWER FACTOR CORRECTED, MILITARIZED

APPLICATIONS

The NTDR series of "BULK" Power Rugged AC-DC power supplies provides highly regulated output power up to 3000 watts. Rugged construction and superior quality make this power supply ideal for harsh environment aircraft applications. Available in standard, modified or fully custom configurations, for industrial, commercial, COTS, ruggedized and Military applications.

STANDARD FEATURES

- High Efficiency
- Rugged Construction
- AC Input 100-132/180-252 VAC
- OV, OL, OT Protection
- Current Share Function
- DC Good Signals
- Remote Inhibit
- $\pm 10\%$ Output Voltage Adjust

AVAILABLE OPTIONS

- Active PFC (Power Factor Correction)
- Parallel Operation
- 3 Phase Input
- 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 CE Mark (LVD)
- Designed to meet EN55022



SPECIFICATIONS

INPUT SPECIFICATIONS:

Input: Input Range (1500W) 100-132VAC/(2000-3000W) 180-252VAC 1Ø or 3Ø
Input Frequency: 47-63Hz (400Hz Optional)
Inrush Current: 30A at 115VAC/40A at 230 VAC (Cold Start)
Efficiency: 86% Typical (Depending On Output Model)
Hold-up time: 20ms At Full Load (Minimum)
Leakage Current: <3.5mA maximum @ 240 VAC

OUTPUT SPECIFICATIONS

Adjustment Range: $\pm 10\%$ (Minimum)
Minimum Load: None
Regulation: Line $\pm 0.5\%$ Load $\pm 2\%$
Ripple/Noise: 1% Peak To Peak Maximum (20 MHz)
Set Point Accuracy: $\pm 1\%$ (Except 5V $\pm 2\%$) (Maximum)
Output Voltage Adj: $\pm 10\%$ Minimum
Overcurrent Protection: 105-125% Automatic Recovery Constant Current
Overvoltage Protection: 115-140% Of V1 Nominal
Overtemperature Protection Heatsink Temp. 90°C $\pm 5^\circ\text{C}$ Auto Recovery

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: -20°C to +50°C. Derate to 50% at +60°C
Storage Temperature: -40°C to +85°C Max
Cooling: Internal Ball Bearing DC Fan
Humidity: 20-90% RH Non Condensing
Weight: Approx: 12 Lbs
Size: 5" x 8" x 15.6"

MODEL SELECTION

	1500 WATT OUTPUT		2000 WATT OUTPUT		2500 WATT OUTPUT		3000 WATT OUTPUT	
NOMINAL VALUE (VDC)	MAXIMUM CURRENT (ADC)	MODEL	MAXIMUM CURRENT (ADC)	MODEL	MAXIMUM CURRENT (ADC)	MODEL	MAXIMUM CURRENT (ADC)	MODEL
270V	5.5A	NTDR-270-5	7A	NTDR-270-7	9A	NTDR-270-9	11A	NTDR-270-11

Note: Other Voltages and Currents Available, Contact the Factory.

OPTION DESIGNATIONS

- PFC	Power Factor Correction
- PAR	Parallel Operation
- 3P	3 Phase Input
- RK	Rack Mount
- HS	Hot Swap

- CC	Conformal Coating
- 400Hz	400Hz Operation
- MIL	Ruggedized for Shock/Vibration
- ORD	Redundant Operation
- PNL	Panel Mount

Note: Other Options Available, Contact the Factory.
Contact the Factory for Connector Information.

MECHANICAL OUTLINE

