

NTDM Series

SINGLE OUTPUT POWER SUPPLIES

1000 - 3000 WATTS - 5" x 8" x 12.5" / 127x203.2x317.5(mm)
BATTERY BACKUP • POWER FACTOR CORRECTION • UNIVERSAL INPUT

APPLICATIONS

The NTDM series of power supplies was designed for ruggedized "hot swap" bulk power requirements offering (N+1) redundancy and available power factor correction to meet critical telecom, datacom, and industrial applications.



SPECIFICATIONS

Input

Input Voltage: 90-132/180-264 VAC (user selected), 1f, 47-63Hz

Efficiency: 75-85% typ full load

In-rush surge current: 30Amps peak maximum.

Turn-on time: Output operates < 1 second from turn-on

Overshoot: No overshoot at turn-on/ turn-off, inhibit/enable or power failure

Hold-up time: 20ms typ

Leakage Current: Less than 0.75mA

Isolation: 2500 VRMS input to output. 1500 VRMS input to ground 500 VRMS output to ground

Operating Temperature: 0-55°C ambient for full output power

Temperature Coefficient: .02% per °C

Overtemperature Protection: Automatically latched off in overtemperature condition or loss of airflow unit resets after cool-down and recycling of the input line

Cooling: DC-Operated ball bearing fan

Output

DC Voltage Outputs and Currents: 5VDC to 110 VDC (Table 1)

Line Regulation: .2%

Load Regulation: .5% from min to max load

Minimum Load: 10% of full load

Dynamic Load Response: 3% typ output voltage variation with 4000 microseconds typ. Recovery time to static regulation band for 25% load step.

Noise and Ripple(PARD): 1% off output or 200 mVpp whichever is smaller measured at supply terminals, DC to 20 MHz bandwidth

DC Output Control: ±10%

Remote Sense: Separate sense terminals will compensate for a total cable drop of 0.5VDC. Internally protected from open or reverse sense lines

STANDARD FEATURES

- MTFB > 150,000 Hours
- Remote sense w/protection
- ±10% voltage adjust range
- OV/OL/OT protected
- Input power fail/output good TTL signals
- Remote turn-on/turn-off
- Colling: DC-Operated ball bearing fan
- Operating temperature range: 0-55°C
- Meets FCC Docket 20780 Level A and VDE 0871/6.78 Level A
- UL1950.CSA 22.2 No.950/IE950 Pending

AVAILABLE OPTIONS

- Battery Back-up
- Auto-Selectable Inputs
- Redundancy (N+1) Configuration
- Power Factor Correction
- Three phase Input
- Hot Pluggable
- Parallel operation with forced current sharing