

NTDM-HS SERIES

1500W-6000W

N+1 REDUNDANT HOT SWAP POWER SYSTEMS

5.25" x 19" x 17.75"

APPLICATIONS

The NTDM-4HS Series of Hot Swap Rack Power Supply systems offer (N+1) redundant or high power paralleled outputs of 2 modules per enclosure. This series is especially suitable for critical telecom and wireless systems or where bulk power is required. Modules may be removed while system is active for ease of replacement resulting in no down time.

STANDARD FEATURES

- MTBF > 150,000 Hours
- LED Indicators (Each Module):
Output Power Good; Input Power Good
- Tightly Regulated
- Equipped with Isolation
Diodes for Redundancy/Parallel Operation
- Circuit Breaker Input
- OV/OL/OT Protection Main Output
- Floating Connectors for Hot Swap Insertion
- Remote Sensing Post Isolation Diodes
- Sturdy Fold Down Handle

AVAILABLE OPTIONS

- Power Factor Correction
- Militarized Version: MIL-STD-810
- Low Voltage Battery Disconnect
(LVBD) for Battery Back-Up Operation
- Terminal Block Input
- 3 Phase Input
- 400 Hz Operation
- Circular Connector Type MS-3102
- Militarized Version: MIL-STD-461



SPECIFICATIONS

ELECTRICAL:

Input:

(1500W) Module 85-132 - 175-265VAC, 47-63 Hz

(2000-3000W) Module 220VAC 1Phase or 115/208 3Phase

Regulation: Line $\pm .3\%$
Load $\pm 2\%$

Ripple: 1% Peak to Peak, Not to Exceed 200mV

Efficiency: 80% Typical

Hold Up Time: 20ms Min.

In Rush Current: 60A max $\frac{1}{2}$ Cycle/Module

Protections: OV, OL & OT

MECHANICAL & ENVIRONMENTAL

Operational Temperature: 0°C to + 50°C Standard
-40°C to + 60°C Optional

Storage Temperature: 0°C to + 85°C

Cooling: Internal DC Fan

Weight: Modules (15 lbs) Each, Rack (24.5 lbs)

Size: 5.25"(H) x 19" Std. Rack (W) x 17.75" (L)

MODEL SELECTION

1500 WATT MODULES		2000 WATT MODULES		2500 WATT MODULES		3000 WATT MODULES	
Max. Volts/Amps Per Module	System Model 2 Modules	Max. Volts/Amps Per Module	System Model 2 Modules	Max. Volts/Amps Per Module	System Model 2 Modules	Max. Volts/Amps Per Module	System Model 2 Modules
12V@125A	NTDM-HS-12-250	CONSULT FACTORY		CONSULT FACTORY		CONSULT FACTORY	
15V@100A	NTDM-HS-15-200						
24V@62A	NTDM-HS-24-124	24V@83A	NTDM-HS-24-166	24V@104A	NTDM-HS-24-208	24V@125A	NTDM-HS-24-250
28V@54A	NTDM-HS-28-108	28V@71A	NTDM-HS-28-142	28V@89A	NTDM-HS-28-178	28V@107A	NTDM-HS-28-208
48V@31A	NTDM-HS-48-62	48V@41A	NTDM-HS-48-82	48V@52A	NTDM-HS-48-102	48V@62A	NTDM-HS-48-124
110V@14A	NTDM-HS-110-28	110V@18A	NTDM-HS-110-36	110V@22A	NTDM-HS-110-44	110V@27A	NTDM-HS-110-54
3000W PARALLEL/1500 REDUNDANT		4000W PARALLEL/2000 REDUNDANT		5000W PARALLEL/2500 REDUNDANT		6000W PARALLEL/3000 REDUNDANT	

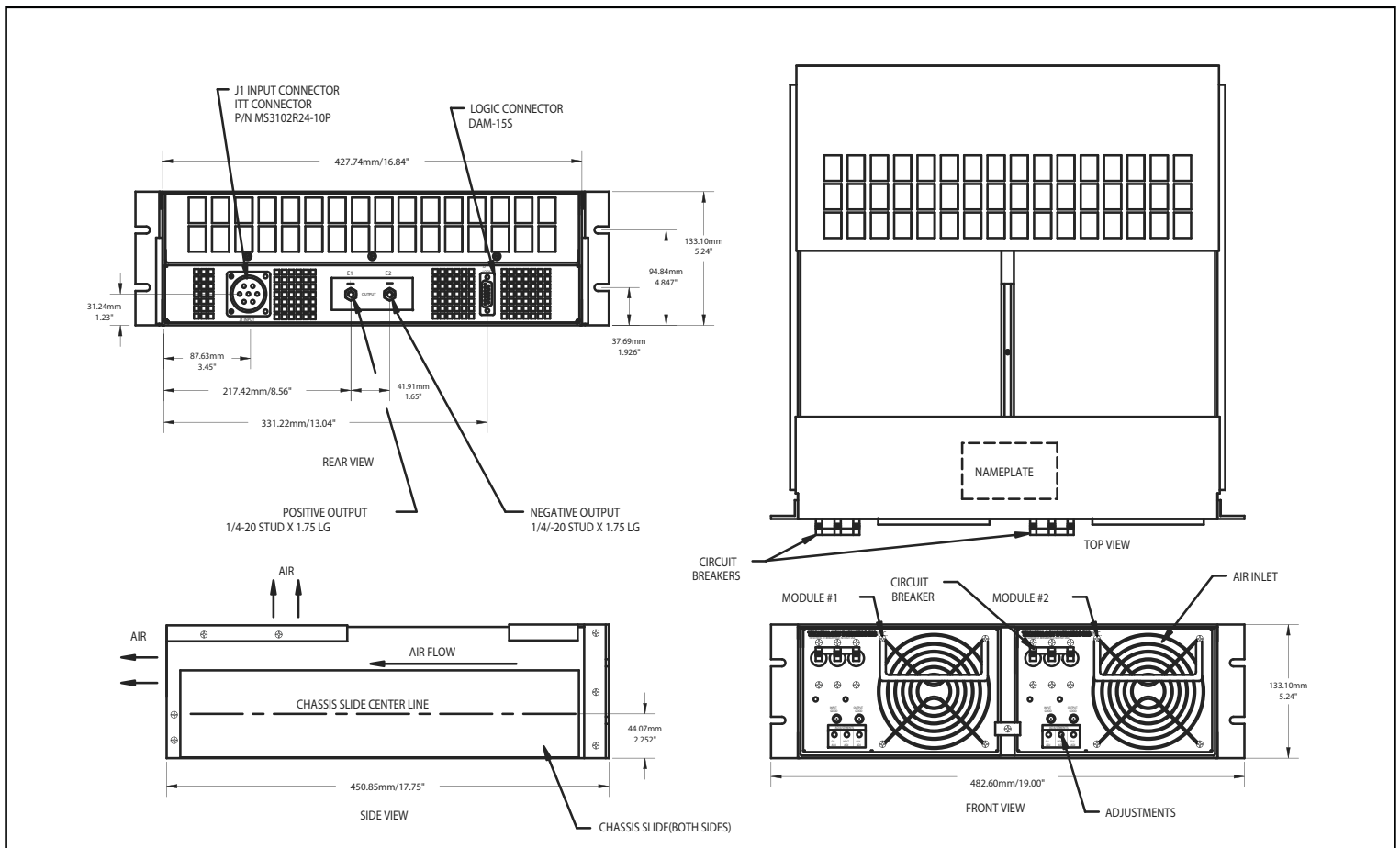
Note: Model information assumes a fully populated rack (2 modules).

SFX.	Options Designations
-TBC	Terminal Block Covers
-MIL	Ruggedized/Militarized
-LVBD	Battery Back-Up
-PFC	Power Factor Correction
-3PH	3 Phase Input
-4HZ	400 Hz Operation
-EMI	Additional EMI Filtering
-MTR	Meter (Volt/Amp) on Each Module

Low Voltage Battery Disconnect

The LVBD module adds a new dimension to battery backup power supplies. The power supply simultaneously charges the battery and powers the load. If the AC power fails, the battery continues to support the load. However, when the battery voltage drops below a pre-determined level, the LVBD module disconnects the battery from the load, thereby protecting the battery from the damaging effects of complete discharge.

MECHANICAL OUTLINE



Rev. A

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

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