

## NNTDM-4HS SERIES 1500W-12,000W N+1 REDUNDANT HOT SWAP POWER SYSTEMS 11.50" x 19" x 16.25"

### APPLICATIONS

The NNTDM-4HS Series of Hot Swap Rack Power Supply systems offer (N+1) redundant or high power paralleled outputs of 4 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
- Circular Input Connector MS-3102

### AVAILABLE OPTIONS

- Power Factor Correction
- Militarized Version: MIL-STD-810
- Low Voltage Battery Disconnect  
(LVBD) for Battery Back-Up Operation
- Terminal Block Covers
- 3 Phase Input
- 400 Hz Operation
- IEEE Communications Port
- 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)

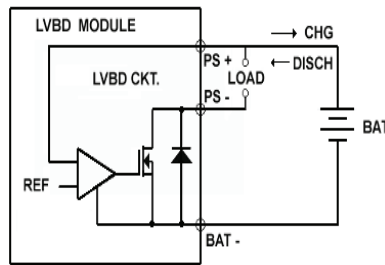
**Size:** 11.50"(H) x 19" Std. Rack (W) x 16.25" (L)

# MODEL SELECTION

1500 WATT MODULES		2000 WATT MODULES		2500 WATT MODULES		3000 WATT MODULES	
Max. Volts/Amps Per Module	System Model 4 Modules	Max. Volts/Amps Per Module	System Model 4 Modules	Max. Volts/Amps Per Module	System Model 4 Modules	Max. Volts/Amps Per Module	System Model 4 Modules
12V@125A	NNTDM-4HS-12-500	CONSULT FACTORY		CONSULT FACTORY		CONSULT FACTORY	
15V@100A	NNTDM-4HS-15-400						
42V@62A	NNTDM-4HS-24-248	24V@83A	NNTDM-4HS-24-332	24V@104A	NNTDM-4HS-24-416	24V@125A	NNTDM-4HS-24-500
28V@54A	NNTDM-4HS-28-216	28V@71A	NNTDM-4HS-28-284	28V@89A	NNTDM-4HS-28-356	28V@107A	NNTDM-4HS-28-428
48@31A	NNTDM-4HS-48-124	48V@41A	NNTDM-4HS-48-164	48V@52A	NNTDM-4HS-48-208	48V@62A	NNTDM-4HS-48-248
6000W PARALLEL/4500 REDUNDANT		8000W PARALLEL/6000 REDUNDANT		10.000W PARALLEL/7500 REDUNDANT		12.000W PARALLEL/9000W REDUNDANT	

Note: Model information assumes a fully populated rack (4 modules).

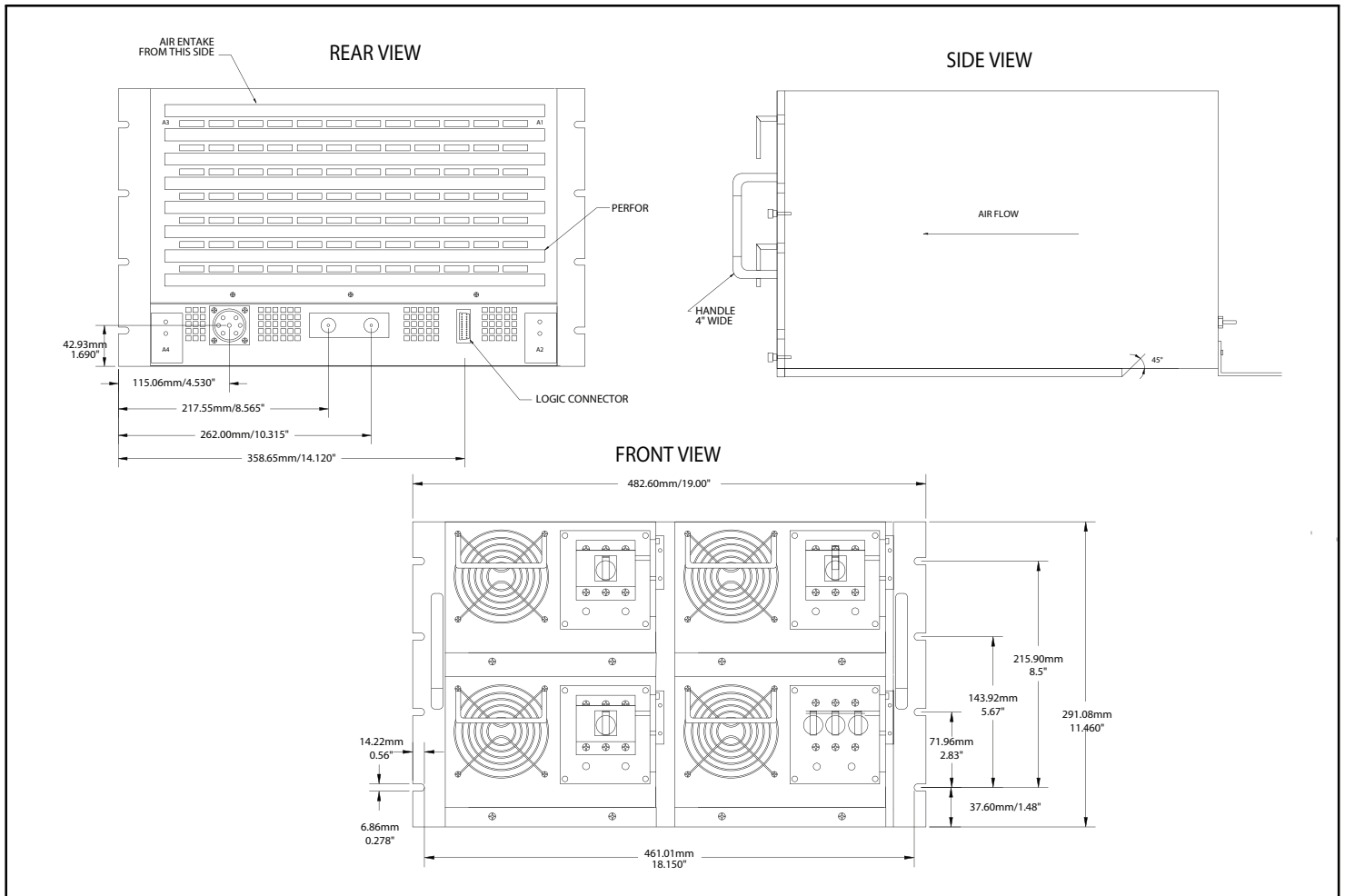
SFX.	Options Designations
-TBI	Terminal Block Covers
-MIL	Ruggedized/Militarized
-LVBD	Battery Back-Up
-PFC	Power Factor Correction
-3PH	3 Phase Input
-IEEE	IEEE 488 Port
-4HZ	400 Hz Operation
-EMI	Additional EMI Filtering
-MTR	Meter (Volt/Amp)



### 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

**TECHNOLOGY DYNAMICS INC.**  
 100 School Street, Bergenfield, NJ 07621  
 Phone: (201) 385-0500, Fax: (201) 385-0702  
[www.technologydynamicsinc.com](http://www.technologydynamicsinc.com)