

## TDL-HS SERIES 1500-4500 WATTS N+1 REDUNDANT HOT SWAP POWER SYSTEMS 5.25" x 19" x 18"

### APPLICATIONS

The TDL-HS Series of Hot Swap Rack Power Supply systems offer (N+1) redundant or high power paralleled outputs of 3 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

- 3U 5.25" high 19" Rack enclosure
- MTBF > 150,000 hours
- LED indicators (each module):
  - Input power good
  - Output power good
- All outputs tightly regulated
  - All outputs equipped with Isolation diodes for redundancy
- Forced Current Sharing
- O.V. Protection main output
- Floating connectors for hot swap insertion
- Remote Sensing post Isolation diodes

### AVAILABLE OPTIONS

- Additional EMI Filtering (MIL-STD-461)
- Militarized version: MIL-STD-810
- Circular connectors type MS-3102
- Low Voltage Battery Disconnect (LVBD) for battery back-up operation
- 400Hz Operation
- Conformal Coating

### SPECIFICATIONS

#### ELECTRICAL

- Input :** 90-264VAC Single Phase, 47-63 HZ  
**Regulation :** Line  $\pm$  .3%  
Line  $\pm$  2%  
**Ripple :** 1% peak to peak, not to exceed 100mV  
**Efficiency :** 80% typical single output units  
70% typical 4 multiple outputs units  
**Hold up Time :** 20ms min.  
**In Rush Current :** 60A max 1/2 cycle  
**Protections :** OV, OL & OT

#### MECHANICAL AND ENVIRONMENTAL

- Operating Temperature:** 0°C to +50°C standard  
-30°C to +60°C optional  
**Storage Temperature:** -30°C to +85°C  
**Cooling:** Internal DC fans  
**Weight:** 25 lb (11.3kg) for 3 module system  
**Size:** 5.25"(H) x 19"(W) x 18" (L)

## MODEL SELECTION

SINGLE MODULE MODEL	OUTPUT VOLTAGE	CURRENT (A)	DUAL MODULE MODEL	OUTPUT VOLTAGE	CURRENT (A)	TRIPLE MODULE MODEL	OUTPUT VOLTAGE	CURRENT (A)
TDL-HS-12-125	12V	125A	TDL-HS-12-250	12V	250A	TDL-HS-12-375	12V	375A
TDL-HS-15-100	15V	100A	TDL-HS-15-200	15V	200A	TDL-HS-15-300	15V	300A
TDL-HS-24-62	24V	62A	TDL-HS-24-125	24V	125A	TDL-HS-24-186	24V	186A
TDL-HS-28-53	28V	53A	TDL-HS-28-106	28V	106A	TDL-HS-28-154	28V	154A
TDL-HS-48-31	48V	31A	TDL-HS-48-62	48V	62A	TDL-HS-48-93	48V	93A
1500 W			3000 W IN PARALLEL / 1500 W REDUNDANT			4500 W IN PARALLEL / 3000 W REDUNDANT		

Note: Other voltages and currents available, consult the factory for your exact needs  
 Blank panels or diagnostic panels are available for racks with less than 3 modules

## OPTION DESIGNATIONS

-EMI	ADDITIONAL EMI FILTERING
-MIL	RUGGEDIZED/MILITARIZED
-MSC	CIRCULAR CONNECTORS TYPE MS-3102
-LVBD	BATTERY BACK-UP
-400HZ	400 Hz OPERATION
-CC	CONFORMAL COATING

### 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 predetermined level, the LVBD module disconnects the battery from the load, thereby protecting the battery from the damaging effects of complete discharge.

## MECHANICAL OUTLINE

