

TDL SERIES
One to Six Outputs
SWITCHING POWER SUPPLIES
600-1000 WATTS - 5" x 5.5" x 11.5"
WITH BATTERY BACK-UP OPTION

APPLICATIONS

The TDL family of power supplies was designed to satisfy a market for low cost, high reliability applications. The TDL is especially suitable for critical systems in remote locations, severe environment, redundant (N+1) or battery back up uninterruptible operation. This versatile design is loaded with options, making it particularly suitable to telecommunications applications.

STANDARD FEATURES

- Compact, Light Weight
- Up to 6 Outputs
- All Outputs Tightly Regulated
- OV, OL and OT Protected
- Remote Inhibit
- $\pm 5\%$ Output Adjustment
- LED Indicators for:
Input Power Good/Output Power Good
- Input via Terminal Block
- Sub-D Conn. for Output
- MTBF > 150,000 Hours
- Meets FCC Docket 20780
Level A and VDE 0871/6.78 Level A
UL1950, CSA, 22.2
No. 950/IEC950 Pending

AVAILABLE OPTIONS

- Auto Line Selection (90-264VAC)
- Redundant Operation (N+1) Configuration
- Conformal Coating
- Ruggedized for Severe Environment
- Hot Pluggable in a 5.25" High Rack
- Rack Mount/Panel Mount
- Low Voltage Battery Disconnect (LVBD)
for Battery Back-up Operation.



SPECIFICATIONS

ELECTRICAL

Input: 90-132/180-264VAC 47-400 Hz
Line Regulation: $\pm .3\%$
Load Regulation: $\pm 2\%$
Ripple: 1% peak to peak, not to exceed 100mV
Efficiency: 80% typical single output units
70% typical multiple output units
Hold Up Time: 20ms (minimum)
In-rush Current: 40A (maximum) 1/2 cycle
Protection: OV, OL and OT

MECHANICAL & ENVIRONMENTAL

Operating Temperature: 0°C to +50°C (standard)
Storage Temperature: -30°C to +85°C
Cooling: Internal ball bearing
DC fan and/or conduction to base plate
Weight: 6.6 Lbs. (3.0 kg) maximum

MODEL SELECTION

SINGLE OUTPUT MODULES		
MODEL NO.	OUTPUT	MAX. LOAD
TDL-5-60	5	60
TDL-12-50	12	50
TDL-24-42	24	42
TDL-28-36	28	36
TDL-48-22	48	22

MULTIPLE OUTPUT MODULES									
OUTPUT #2 (-V2)		OUTPUT #3 (+V3)		OUTPUT #4 (V4)		OUTPUT #5 (V5)		OUTPUT #6 (V6)	
VDC @ MAX AMP	CODE	VDC @ MAX AMP	CODE	VDC @ MAX AMP	CODE	VDC @ MAX AMP	CODE	VDC @ MAX AMP	CODE
-5V @ 3A	A1	+5V @ 5A	B1	5V @ 3A	C1	5V @ 10A	D1	5V @ 10A	E1
-12V @ 3A	A2	+12V @ 5A	B2	12V @ 3A	C2	12V @ 8A	D2	12V @ 8A	E2
-15V @ 3A	A3	+15V @ 4A	B3	15V @ 3A	C3	15V @ 7A	D3	15V @ 7A	E3
-24V @ 3A	A4	+24V @ 3A	B4	24V @ 2A	C4	24V @ 4.5A	D4	24V @ 4.5A	E4

Note: Other voltages and currents available, contact the factory. Maximum total output power cannot exceed 1000 watts. Maximum current cannot be exceeded.

TDL SERIES MULTIPLE OUTPUT SELECTION GUIDE
<ul style="list-style-type: none"> Select main output from the Single Output Modules table. Select second, third, fourth, fifth or sixth outputs from the Multiple Output Modules table. Second and third outputs must be equal in voltage and share common ground. Outputs four, five and six are floating and may be used as positive or negative.
<p>EXAMPLE: P/N TDL5-60 A2B2C1D1E2-Suffix +5V 60A, -12V 3A, +12V 5A, +5V 3A, 5V 10A, 12V 8A</p>

OPTION DESIGNATIONS

-ORD	REDUNDANT OPERATION
-RK/PNL	RACK MOUNT / PANEL MOUNT
-ALS	AUTO LINE SELECT
-CC	CONFORMAL COATING
-MIL	RUGGEDIZED/MILITARIZED
-LVBD	BATTERY BACK-UP

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.

Backs up main output only. Battery is connected to output.

MECHANICAL OUTLINE

