

## TDLDC SERIES One to Six Outputs DC-DC CONVERTER 600-1000 WATTS - 5" x 5.5" x 11.5"

### APPLICATIONS

The TDLDC family of power supplies was designed to satisfy a market for low cost, high reliability applications. The TDLDC is especially suitable for critical systems in remote locations, severe environment and redundant operation (N+1). 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

- Redundant Operation (N+1) Configuration
- Forced Current Sharing
- Hot Pluggable in 5.25" (133.35mm) High Rack
- Ruggedized for Severe Environment
- Wide Temperature Operation (-30°C to +70°C)



### SPECIFICATIONS

#### ELECTRICAL

Input: 22-32VAC or 42-56VDC

Line Regulation:  $\pm .3\%$

Load Regulation:  $\pm 2\%$

Ripple: 25mV peak to peak, not to exceed 100mV

Efficiency: 80% typical single output units

70% typical multiple output units

Protection: OV, OL and OT

#### MECHANICAL & ENVIRONMENTAL

Operating Temperature: 0°C to +65°C (standard)

-30°C to +75°C (optional)

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

Size: 5" x 5.5" x 11.5"

# MODEL SELECTION

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

TDLDC SERIES MULTIPLE OUTPUT SELECTION GUIDE
<ul style="list-style-type: none"> <li>• Select main output from the Single Output Modules table.</li> <li>• Select second, third, fourth, fifth or sixth outputs from the Multiple Output Modules table.</li> <li>• Second and third outputs must be equal in voltage and share common ground.</li> <li>• Outputs four, five and six are floating and may be used as positive or negative.</li> </ul>
<p>EXAMPLE: P/N TDLDC5-60 A2B2C1D1E2-Suffix +5V 60A, -12V 3A, +12V 5A, +5V 3A, 5V 10A, 12V 8A</p>

## OPTION DESIGNATIONS

-ORD	REDUNDANT OPERATION
-WTO	WIDE TEMPERATURE OPERATION
-FCS	FORCED CURRENT SHARING
--MIL	RUGGEDIZED/MILITARIZED

### 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

