

TDDC-1500 SERIES 1500 WATT SINGLE OUTPUT DC-DC CONVERTER 11.75" x 5.13" x 1.73"

APPLICATIONS

The TDDC-1500 series of DC-DC Converter provides highly regulated output power to 1500 watts. Rugged construction and superior quality make this DC-DC Converter ideal for harsh environment applications.

Available in standard, modified or fully custom configurations, for Industrial, Commercial, COTS, Ruggedized and Military applications.

STANDARD FEATURES

- Low Profile 1U
- High Power Density
- 1000 VDC I/O Isolation
- Remote ON/OFF Control
- Forced Air Cooling, Internal Fan
- OV, OL, OT Protection
- Remote Sense
- Front End Input & Output Terminations

AVAILABLE OPTIONS

- Parallel Operation
- Rack/Panel Mount
- Ruggedized For Shock & Vibration
- Conformal Coating

SAFETY AND EMISSIONS

- Designed to meet MIL-STD-1275
- Designed to meet MIL-STD-461*
- Designed to meet MIL-STD-810

* Requires external EMI filter.



SPECIFICATIONS

INPUT SPECIFICATIONS

Input: 18-32 VDC
Rise Time: 200 ms At Full Load
DC Current: 23.5 A/ 48 VDC 11.6A/96 VDC
Efficiency: 89-92% Typical (Depending On Output Model)

OUTPUT SPECIFICATIONS

Output Adjustment Range: 24% to +29%
Minimum Load: none
Regulation: Line \pm 1% Load \pm 1%
Ripple/Noise: 1% peak to peak maximum (20 MHz)
Overcurrent Protection: 105-125% automatic recovery Constant Current
Overvoltage Protection: 115-140% of V1 nominal
Overtemperature Protection: Heatsink Temp. 85°C \pm 5°C Auto Recovery

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: -25°C to +50°C. Derate to 50% at +65°C
Storage Temperature: -40°C to +75°C max. 95% Relative Humidity
Cooling: Internal Ball Bearing DC Fan
Humidity: 20-90% RH Non Condensing
Vibration: 10-500Hz, 2G 10 min./1 Cycle for 60 min. (3 axes)
Shock: 20G Peak Half Sine Wave, 11ms
Weight: Approx. 4.5 lbs.
Size: 11.75" x 5.13" x 1.73"



NSF-ISR

Registered
to ISO 9001

Design Excellence since 1976!

MODEL SELECTION

24-32 VDC INPUT

MODEL NUMBER	VOLTAGE	CURRENT
TDDC-1500-12	12V	85A
TDDC-1500-28	28V	53A
TDDC-1500-48	48V	31A

NOTE: OTHER VOLTAGES & CURRENTS AVAILABLE. CONSULT THE FACTORY. MINIMUM ORDER REQUIRED.

OPTION DESIGNATIONS

- PAR	Parallel Operation
-CC	Conformal Coating
-ORD	Redundant Operation

- MIL	Ruggedized/Militarized
- PNL	Panel Mount
-RK	Rack Mount

MECHANICAL OUTLINE

