

DCC65F Series DC/DC Voltage Converter



Benefits

- Ultra-Quiet
- Power sensitive electronics without interference
- Rugged & Reliable
- Ensure years of safe and trouble free operation

Applications

- Marine / Automotive / RV
- Electric Utilities and Substations
- Telecom Power Plants
- Manufacturing Locations
- Steel Mills
- Military Applications (COTS)
- Industrial Controls
- OEM Applications
- Solar / Alternative Power Systems
- Fuel Cells

DC/DC Converters

DCC65F Single-Output DC Converter

Description

The DCC65F Series of DC/DC converters uses a field proven high frequency push-pull topology to generate 500W output power with built-in fan cooling.

Any DC input/output configuration is possible. An optional redundancy diode allows for parallel connection to achieve higher output power or N+1 redundancy. This feature also makes the unit suitable for battery charging applications.

The chassis-mount design features low component count and high efficiency. The use of high quality components and rigorous quality control results in a demonstrated MTBF exceeding 1,000,000 hours confirmed by a track record established in hundreds of applications.

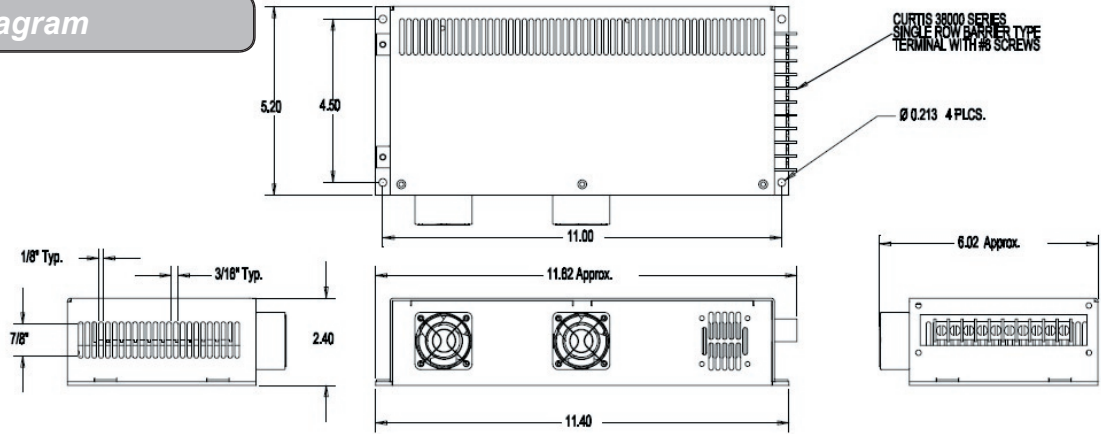
Additional ruggedizing and conformal coating are available for applications requiring higher immunity to shock, vibration, humidity, moisture, dust and insects. Other options include a Form C output fail alarm and remote shutdown.

Features

- Compact size
- Single regulated and adjustable output
- 500W output power with built-in fan cooling
- Full electronic protection
- Rugged industrial quality
- Field-proven design
- n+1 redundancy available
- 1 year parts and labour warranty

Specifications (Specifications Subject to Change Without Notice)

Mechanical Diagram



Specifications

ALL DIMENSIONS ARE IN INCHES

Input Voltage range	Any DC input from 24V to 125VDC (12VDC - only at 360W max)
Input Protection	Internal safety fuse Inrush current limiting Reverse polarity Lower voltage than specified input min. will not damage unit
Input Isolation	Appropriate to the input/output configuration to meet safety standards
Output Voltages	Any DC output from 12V to 125VDC
Redundancy diode	Optional
Line / Load Regulation	± 1% combined
Dynamic Response	Max 5% voltage deviation for 10% to 50% load step, better than 1msec recovery time
Output Overvoltage Protection	Double regulator loop
Overload Protection	Current limiting with short circuit protection Self-resetting thermostat for thermal protection
Efficiency	Min 80% at full load
Switching Frequency	55kHz +/- 3kHz
EMI	EN 55022 Class A as a minimum
Output Ripple/Noise	Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20HZ BW)
Operating Temperature	0 to +50°C with convection. Extended temperature range available
Temperature Drift	0.03% per °C over operating temperature range
Cooling	Forced air by built in fans
MTBF	200,000 hours @ 45 °C (calculated) Demonstrated MTBF exceeds 1,000,000 hours at typical operating temperatures
Indicators	Optional
Control Input	Optional
Alarm Outputs	Optional
Environmental Protection	Basic ruggedizing, Optional heavy ruggedizing and conformal coating is available
Connections	12 pole barrier type terminal block with 3/8" spacing
Dimensions	'F3' Package: 11.4" x 6.2" x 2.43" 29 x 15.8 x 6.2 cm
Weight	2.2kg
Safety	Designed to meet EN60950 and related UL & CSA standards
Warranty	1 year

Available from:

RIPEnergy®

The power conversion company

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