

DCC65 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

DCC65 Single-Output DC Converter

Description

The DCC65 Series of DC/DC converters uses a field proven high frequency push-pull topology to generate 300W output power with convection/conduction cooling and 400W if forced air is available.

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 very high demonstrated MTBF 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.

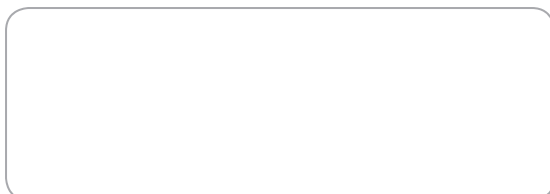
Features

- Compact size
- Single regulated and adjustable output
- 300W/400W output power
- Full electronic protection
- Telecom quality
- Field-proven design
- Also available as plugin module
- n+1 redundancy available
- 1 year parts and labour warranty

Specifications (Specifications Subject to Change Without Notice)

Input Voltage range	24V or 48VDC or any DC input from 24V to 125VDC At 12VDC input the output power is reduced to 250W
Input Protection	Inrush current limiting Varistor Reverse polarity Internal safety fuse Lower voltage than specified minimum input will not damage the unit
Input Isolation	Appropriate to the input/output configuration to meet safety standards
Output Voltages	24V / 12.5A or 48V / 6.2A standard or any DC output from 12V to 125VDC (Consult factory for other voltages)
Redundancy Diode	Optional
Line / Load Regulation	± 1% combined
Dynamic Response	Max 5% voltage deviation for 10% to 50% load step, with 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
EMI	EN 55022 Class A as a minimum
Switching Frequency	55kHz +/- 3kHz
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 operating temperature range without derating Extended temperature range available
Temperature Drift	0.03% per °C over operating temperature range
Cooling	Conduction to customer heatsink or chassis and natural convection
Environmental Protection	Basic ruggedizing Optional heavy ruggedizing and conformal coating is available
Humidity	5 – 95% non-condensing
MTBF	160,000 hours @ 45°C (calculated) Demonstrated MTBF is significantly higher
Indicators	Output ON LED visible through the cooling slots
Control Input	Optional
Alarm Outputs	Optional
Connections	12 pole barrier type terminal block with 3/8" spacing
Dimensions	'F3' Package: 29 x 13.2 x 6.4 cm
Weight	1.77 kg
Standards	Designed to meet EN60950 and related UL & CSA standards
RoHS Compliance	Fully compliant
Warranty	1 year

Available from:



RIPEnergy®

The power conversion company

RIPEnergy AG
Talstrasse 2
CH-8702 Zollikon
Switzerland

Ph +41-(0)43-818 53 85
Fax +41-(0)43-818 53 87
www.ripenergy.ch