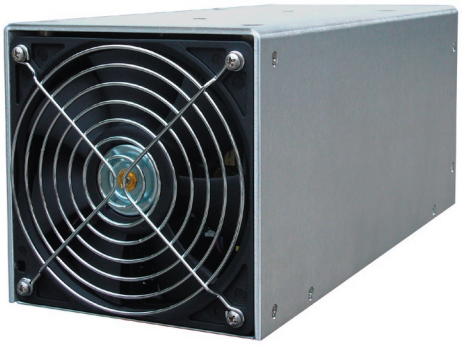
DCC1000 Series DC/DC Voltage Converter



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

DCC1000 Series (isolated)

Description

The DCC1000 Series is a compact DC/DC converter which uses established design techniques to deliver 1000W output power, depending on the input/output configuration.

A wide selection of input and output voltages are available off-the-shelf or with short lead times. Suitable for a wide range of applications, the DCC1000 features full electronic protection, high efficiency and low output noise.

The built-in fan provides sufficient airflow for operation without de-rating up to 50°C ambient temperature.

Options include extended operating temperature (-40 to +65°C) and N+1 redundancy.

Features

- Compact size
- Competitive price
- 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)*

Specifications

Input Voltage range	21-30VDC and 42-60VDC ranges standard. Other inputs upon request
Input Protection	Thermal Fuse Inrush current limiting
Input Isolation	1000VDC input to chassis 1000VDC input to output 500VDC output to chassis
Output Voltages	12V/83A, 24V/42A, 48V/21A or 120V/8.3A are standard Consult factory for other voltages and output currents
Line / Load Regulation	± 1% combined Tighter regulated versions with sensing available
Output Overvoltage Protection	Double regulator loop
Overload Protection	Rectangular current limiting with short circuit protection Thermal shutdown with automatic reset in case of insufficient airflow
Efficiency	Typical 90% at full load
EMI	Meets FCC 20780 Class A and EN 55022 Class A, Class B versions available
Output Ripple/Noise	Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHZ BW) Audio band noise: max. 32dBrnC
Output Fail Alarm	via optocoupler - C-E (normal operation: low)
Operating Temperature	0 to +50°C Extended temperature range available
Temperature Drift	0.03% per °C over operating temperature range
Connections	Copper studs with nuts or terminal block
Dimensions	12.7cm x 12.7cm x 30.5cm enclosed case Can be mounted on a 3U x19” or 23” panel for rack mount applications
Weight	5.2Kg
Safety	Full compliance to IEC950, CSA 22-2-950 and UL 1950 Please contact factory for approval status for the requested input/output configuration
Warranty	1 year

Available from:

RIPEnergy®

The power conversion company

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