

DCCW200 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

DCCW200 Single-Output DC Converter

Description

The DCCW200 Series of DC/DC converters uses a field proven high frequency push-pull topology to generate 200W output power with convection cooling.

Virtually any DC input/output combination is possible with short delivery times. The chassis-mount design features low component count and high efficiency.

The use of high quality components and rigorous quality control results in an MTBF exceeding 150,000 hours at 45°C.

Available Options:

Output separation diode

Output fail alarm (Form C relay)

Low temperature (-35° C operation)

Ruggedization Package (against shock and vibration)

Conformal coating (dusty, humid, salty conditions)

Features

- Field-proven converter topology
- Wide input range:20-60Vdc or 65-160Vdc
- Custom inputs available upon request
- EMI: EN55022 Class B for most models
- Designed to meet EN60950 safety
- Double regulator overvoltage protection
- Overload protection
- Inrush current limiting
- Convection/conduction cooled - no fan
- Single output
- Custom outputs available
- Designed for heavy industrial and other harsh environment applications

Specifications (Specifications Subject to Change Without Notice)

Input Voltage range	20-60VDC and 65-160VDC
Input Protection	Reverse polarity protection by crossbar diode on 20–60V input and series diode on 65–160V input inrush current limiting; thermal fuse; varistor
Input Isolation	1500VDC input to chassis 1500VDC input to output 500VDC output to chassis
Output Voltages	12V / 16A or 24V / 8A or 48V / 4A standard or any DC output from 12V to 125VDC (Consult factory for other voltages)
Line Regulation	± 0.5%
Load Regulation	Maximum ± 1% from no load to full load
Output Overvoltage Protection	Double regulator loop
Overload Protection	Rectangular current limiting with hiccup type short circuit protection
Efficiency	Typical 80% at full load
RFI Suppression	EN 55022 Class A as a minimum
Output Ripple/Noise	High frequency ripple is better than 30mVrms or 200mVpp (20 MHz BW)
Operating Temperature	0 to +50°C for full specifications with convection/conduction cooling Extended temperature ranges available
Temperature Drift	0.03% per °C over operating temperature range
MTBF	>150'000 @ 45°C
Connections	Screw type terminal block 3/8" spacing
Dimensions	'F2' Package: 10" x 4.3" x 2.3", 25.4 x 10.9 x 5.8 cm
Weight	1.2kg
Warranty	2 years

Available from:



RIPEnergy®

The power conversion company

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