

DCCW150 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

DCCW150 Single-Output DC Converter

Description

The DCCW150 Series of DC/DC converters uses a field proven high frequency push-pull topology to generate 150W 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.

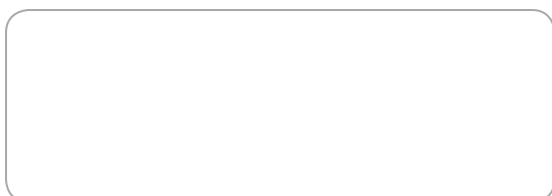
Features

- 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)

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|--------------------------------------|--|
| 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 / 12A or 24V / 6A or 48V / 3A 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 | 'F1' Package: 7.8" x 4.4" x 2.0", 8.7 x 15.5 x 4.9 cm |
| Weight | 0.75kg |
| Warranty | 1 year |

Available from:



RIPEnergy®

The power conversion company

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