

# 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.

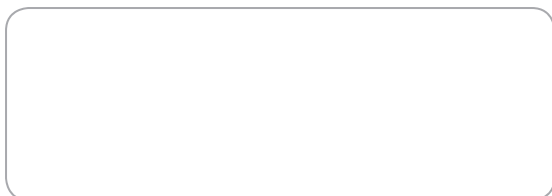
#### Features

- 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)

|                                      |  |
|--------------------------------------|--|
| <b>Input Voltage range</b>           | 20-60VDC and 65-160VDC   |
| <b>Input Protection</b>              | Reverse polarity protection by crossbar diode on 20–60V input and series diode on 65–160V input<br>inrush current limiting; thermal fuse; varistor |
| <b>Input Isolation</b>               | 1500VDC input to chassis<br>1500VDC input to output<br>500VDC output to chassis  |
| <b>Output Voltages</b>               | 12V / 12A or 24V / 6A or 48V / 3A standard<br>or any DC output from 12V to 125VDC (Consult factory for other voltages)                             |
| <b>Line Regulation</b>               | ± 0.5%   |
| <b>Load Regulation</b>               | Maximum ± 1% from no load to full load   |
| <b>Output Overvoltage Protection</b> | Double regulator loop  |
| <b>Overload Protection</b>           | Rectangular current limiting with hiccup type short circuit protection   |
| <b>Efficiency</b>                    | Typical 80% at full load   |
| <b>RFI Suppression</b>               | EN 55022 Class A as a minimum  |
| <b>Output Ripple/Noise</b>           | High frequency ripple is better than 30mVrms or 200mVpp (20 MHz BW)  |
| <b>Operating Temperature</b>         | 0 to +50°C for full specifications with convection/conduction cooling<br>Extended temperature ranges available                                     |
| <b>Temperature Drift</b>             | 0.03% per °C over operating temperature range  |
| <b>MTBF</b>                          | >150'000 @ 45°C  |
| <b>Connections</b>                   | Screw type terminal block 3/8" spacing   |
| <b>Dimensions</b>                    | 'F1' Package: 7.8" x 4.4" x 2.0", 8.7 x 15.5 x 4.9 cm  |
| <b>Weight</b>                        | 0.75kg   |
| <b>Warranty</b>                      | 1 year   |

Available from:



## RIPEnergy®

The power conversion company

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