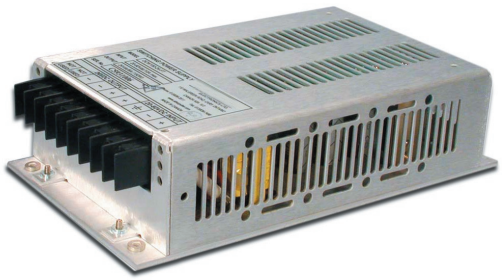
DCCW120 Series DC/DC Voltage Converter



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

DCCW120 Wide Input Range Converter

Description

This rugged, industrial quality power supply uses field-proven technology to generate the required output power. It is a mature product with a track record in numerous applications.
The input accepts any AC voltage from 95V to 264Vac, as well as DC voltage from 117V to 360V.
Cooling is via base plate to a heat sinking surface and by natural convection.
Low component count, large design headroom and the use of components with established reliability result in a high MTBF.
It is manufactured at our plant under strict quality control.
Special Features: 117-360Vdc input range

Features

- Field-proven converter topology
- Very wide input range
- Custom inputs available upon request
- EMI: EN55022 Class A
- Designed to meet EN60950-1 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	117 … 360Vdc Input Current: 1.3A max with 117Vdc input
Input Protection	Inrush current limiting Varistor Reverse polarity protection Internal safety fuse Lower voltage than specified input min. will not damage unit
Isolation	2250VDC input to chassis 4300VDC input to output; 8mm spacing 500Vdc output to chassis
Standards	Designed to meet EN60950-1 and corresponding UL and CSA standards
EMI	EN55022 Class A as minimum
Switching Frequency	Output stage: 47kHz ± 2kHz
Hold-Up Time	Min. 5ms at nominal input for 5% drop of the output voltage
Output Voltage	24V / 5A 48V / 2.5A, 110V / 1A or 125Vdc / 0.9A Output is floating; either terminal can be grounded Other outputs available on request
Redundancy Diode	None
Line / Load Regulation	+/-1% combined from zero load to full load
Dynamic Response	Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time
Output Ripple/Noise	Better than 60mVrms or 300mVpp (@ 20MHz BW)
Output Overload Protection	Rectangular current limiting with hiccup type short-circuit protection (hiccup mode) Current Limit: 5.5A ± 0.4A
Output Overvoltage Protection	Double regulator loop OVP Setting: 28V ± 1V
Efficiency	Typ. 80% at full load
Operating Temperature	0ºC to 50ºC for full specification with proper installation
Temperature Drift	0.03% per °C over operating temperature range
Cooling	Natural convection and conduction via customer chassis
Environmental Protection	Basic ruggedizing
Vibration/Shock	IEC 61373 Cat 1 A&B
Humidity	5 – 95% non-condensing
MTBF	180,000 hours @ 45°C
Indicators	None
Control Input	None
Alarm Outputs	None
Dimensions	F1: 112 x 50 x 197 mm Mounting holes are clear.
Weight	0.8 kg
Connections	9-pole barrier type terminal block, with 3/8” spacing
RoHS Compliance	Fully compliant
Warranty	2 years

Available from:

RIPEnergy®

The power conversion company

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