

DCP800 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

DCP800 Series (isolated)

Description

The DCP800 Series is a highly compact DC/DC converter which uses established design techniques to ensure high reliability.

Suitable for a wide range of applications, the DCP800 features full electronic protection, high efficiency and low output noise.

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

Options include extended operating temperature (-40°C to +65°C) and N+1 redundancy. The power factor corrected version is also available.

Features

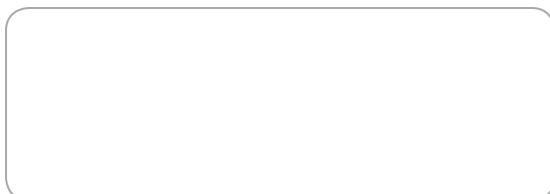
- Compact size
- Competitive price
- Full electronic protection
- Telecom quality
- Field-proven design
- Adjustable output
- n+1 redundancy available
- 2 years parts and labour warranty

Specifications (Specifications Subject to Change Without Notice)

Specifications

Input Voltage	115VDC \pm 15% 250VDC \pm 15% Other inputs upon request
Input Protection	Thermal Fuse Inrush current limiting
Input Isolation	2250VDC input to chassis 4300VDC input to output 8mm spacing 500VDC output to chassis
Output Voltages	12V/65A, 24V/33A, 48V/16A are standard Consult factory for other voltages
Redundancy Diode	Internal installed
Line / Load Regulation	\pm 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 80% at full load
EMI	Meets FCC 20780 Class A and EN 55022 Class A conducted emissions
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. 32dBmC
Hold Up Time	Minimum 10ms at full load for 5% drop of output voltage
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
Environmental protection	Conformal coating
Connections	Screw-type terminal block
Dimensions	12.7cm x 12.7cm x 29.3cm enclosed case can be mounted on a 3U x19" or 23" panel for rack mount applications
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	2 year

Available from:



RIPEnergy®

The power conversion company

RIPEnergy AG
Wägitalstrasse 24
CH-8854 Siebnen
Switzerland

Ph +41-(0)43-818 53 85
Fax +41-(0)43-818 53 87
www.ripenergy.ch