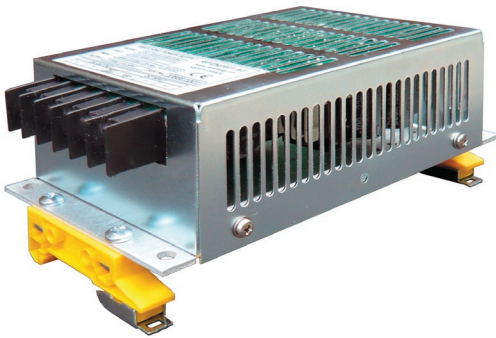


PS100-12FD Series Power Supply



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

Power Supplies

PS100 Series

Description

This unit is a high reliability rugged power converter built on 3" x 5" PCB size and installed in standard enclosure.

The input accepts any AC voltage from 88V to 264Vac as well as DC voltage from 120V to 360V.

Cooling by natural air convection.

Low component count and the use of components with established reliability results in a high MTBF.

The unit is manufactured at our plant under strict quality control.

Special Features: DIN rail mount, +55°C operation

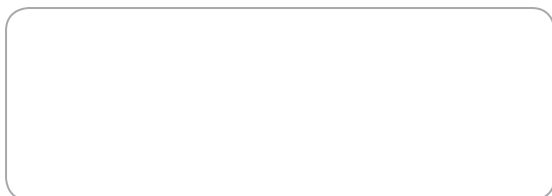
Features

- Field-proven rugged design
- Compact case
- Convection/conduction cooling
- Complete encapsulation
- 55W output power
- Compliance to EN50155
- Full electronic protection
- Wide input ranges
- 1 year parts and labour warranty

Specifications (Specifications Subject to Change Without Notice)

Input Voltage range	85-265Vac 47-63Hz or 105Vdc – 360Vdc Input Current: 1.5A max.
Input Protection	Inrush current limiting Varistor No internal safety fuse, customer will use external fuse Lower voltage than the specified minimum input will not damage the unit
Isolation	Input to chassis: 2250Vdc Input to output: 4300Vdc 8mm spacing Output to chassis: 500Vdc
Output Voltage/Current	12Vdc +/- 0.1 / 5A Output is floating, either terminal can be grounded
Switching Frequency	47kHz +/-2kHz
Redundancy Diode	None
Line / Load Regulation	+/- 2% combined from zero load to full load
Dynamic Response	Max 5% voltage deviation for 10% to 50% load step, with better than 1ms recovery time
Output Overvoltage Protection	Second regulator loop, completely stable and independent of main regulator loop OVP setting: 14V +/- 1V
Overload Protection	Rectangular current limiting with hiccup type short-circuit protection Thermal shutdown in case of insufficient cooling (self resetting) Current Limit: 6.5A +/- 0.5A
Efficiency	85% at full load
EMI	EN55022 Class A
Output Ripple/Noise	Better than 40mVrms or 200mVpp (20MHz BW)
MTBF	100,000 hours @ 45°C
Indicators	None
Control Input	None
Alarm Output	None
Environmental Protection	Ruggedizing
Operating Temperature	0°C to +55°C for full specification with proper installation
Temperature Drift	0.03% per °C over operating temperature range
Humidity	5 – 95% non-condensing
Cooling	Natural air convection
Connections	6-pole barrier-type terminal block with 3/8" spacing.
Dimensions	86 x 154x 48mm Not including DIN rail mounts
Weight	0.23 Kg
Standards	Designed to meet IEC950 and corresponding UL & CSA standards
RoHS Compliance	Not required, but accepted
Warranty	1 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