

PBC1000 Series AC Battery Charger



Benefits

- Quiet operation
- Power sensitive electronics without interference
- Rugged & Reliable
- Ensure years of safe and trouble free operation
- Fast & Accurate Charging

Applications

- Oil drilling and transport sites
- Pipeline Industry
- Marine & other Rugged Environments
- Steel mills
- Electric Utilities and Substations
- Base Station Power (Radio & Telecommunications)
- OEM Applications
- Field Work / Construction Sites
- Solar Power Systems
- Emergency Power Backup (UPS)
- Security Systems

Battery Chargers

PBC1000 Series

Description

The PBC1000 Series is a highly compact AC/DC float type battery charger which uses established design techniques to ensure high reliability.

Standard outputs are 12V/75A, 24V/40A, 48V/20A and 60V/15A.

Suitable for a wide range of applications, the PBC1000 features full electronic protection, high efficiency and low output noise.

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

Options include extended operating temperature (-40 to +65°C). Ruggedizing (against shock and vibration) and Conformal coating (dusty, humid, salty conditions)

Features

- Compact size 5" x 5" x 12"
- Electronic power factor correction
- Adjustable output
- 1000W output power
- Full electronic protection
- Telecom quality
- Field-proven design
- 1 year parts and labour warranty

Specifications (Specifications Subject to Change Without Notice)

Electrical (Input)

Input Voltage VAC	95 to 264
Frequency Hz	47...63
Power Factor	0.95 @ full load
Input Protection	Thermal fuse, Inrush current limiting

Electrical (Output)

Output Voltages	12V/75A; 24V/40A; 48V/20A & 60V/15A (Consult factory for other voltages)
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

Indications & Electrical

Efficiency	Min 80% at full load
Line Load Regulation	± 1% combined Tighter regulated versions available
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. 32dBnC
Operating Temperature Range	0° to +50°C Extended range available (Consult factory)
Humidity	5 - 95% non-condensing
Temperature Drift (for output voltage level)	0.03% per °C over operating temperature range
MTBF	>100'000 @ 45°C
EMI	Meets EN 55022 Class A
Isolation	2250 VDC input to chassis / 4300VDC input to output 8mm spacing / 500VDC output to chassis

Mechanical Specifications

Depth	30.5 cm
Width	12.7 cm
Height	12.7 cm
Weight	7 kg
Connections	Screw-type terminal block
Warranty	1 year
Safety	Compliance to IEC950, CSA 22-2-950 and UL 1950 Please contact factory for approval status for the requested input/ output configuration

Available from:



RIPEnergy®

The power conversion company

RIPEnergy AG
Talstrasse 2
CH-8702 Zollikon
Switzerland

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