

RCH1500 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

RCH1500 Series

Description

The RCH 1500-AEQ is a two-step battery charger that uses advanced high-frequency conversion technology to generate 1500W output power from a power factor corrected 95... 264VAC universal input.

The automatic two step function initially equalizes voltage at 144VDC/10A, and automatically switches to a 138VDC float voltage when the output current, limited to 11A, drops below 2A.

This fan-cooled unit is designed for charging standard 120V, 60 cell, gel-cell and sealed lead-acid batteries using rectangular current limiting with constant voltage charging. The use of high-quality components and rigorous quality control results in an MTBF exceeding 100,000 hours at 45°C.

Options include extended operating temperature for -40 (up to +65°C with de-rating); N+1 redundancy; Ruggedizing (against shock and vibration) and Conformal coating (dusty, humid, salty conditions)

Features

- Compact size 7.5" x 5" x 15"
- Single regulated and adjustable
- 1500W output power with fan
- Full electronic protection
- Telecom quality
- Field-proven design
- Also available as plug-in module
- N+1 redundancy available
- 1 year parts and labour warranty

Specifications (Specifications Subject to Change Without Notice)

Electrical (Input)

Input Voltage VAC	95 to 264 Other inputs available, please consult factory
Frequency Hz	47...420
Input Protection	Thermal fuse, Inrush current limiting

Electrical (Output)

Output Voltages	144VDC/10A equalize voltage 138VDC float voltage (Consult factory for other voltages)
Output Overvoltage Protection	Double regulator loop
Overload Protection	Rectangular current limiting short circuit protection Self-resetting thermostat for thermal protection Thermal shut-down with automatic recovery in case of continuous overload

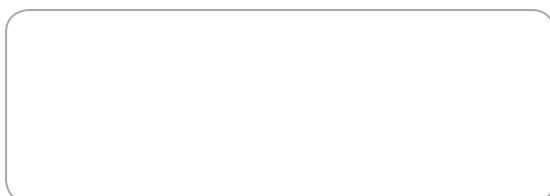
Indications & Electrical

Efficiency	Min 80% at full load
Line Load Regulation	± 1% from 10% to float
Output Ripple/Noise	200mVrms/500mVpp (20HZ BW)
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 conducted emissions
Isolation	2250 VDC input to chassis / 4300VDC input to output 8mm spacing / 500VDC output to chassis
Output Fail Alarm	Form-C Relais alarm

Mechanical Specifications

Depth	38.1 cm
Width	19.1 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

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