



ANALYTIC SYSTEMS

Power Conversion Solutions

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Benefits

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

Applications

- Electric Utilities and Substations
- Telecom Power Plants
- Manufacturing Locations
- Steel Mills
- Military Applications (COTS)
- Industrial Controls
- OEM Applications
- Solar / Alternative Power Systems
- Fuel Cells

AC/DC Battery Chargers

BCH1500 Series Charger with Auto Equalize

Description

The BCH1500 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. A wide range of custom options, including a 3000W version, are also available.

Features

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

BCH1500 Series AC/DC 120VDC Battery Charger

Specifications

Input Voltage	95 to 264VAC 47 - 420Hz
Input Protection	Thermal fuse, Inrush current limiting
Isolation	2250VDC input to chassis / 4300VDC input to output / 8mm spacing 500VDC output to chassis
Output Voltage	144VDC / 10A equalize voltage 138VDC float voltage (Consult factory for other voltages)
Line/Load Regulation	*/-1% from 10% to float
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
Efficiency	Min 80% at full load
Charger Fail Alarm	Form-C charger fail alarm
EMI	Meets EN 55022 Class A for conducted emissions
Output Ripple/Noise	200mV rms / 500mV pp (20HZ BW)
Operating Temperature Range	0 to +50°C (Optional extended temperature range of -40°C to +60°C available)
Temperature Drift	0.03% per °C over operating temperature range
Dimensions	7.5" x 5" x 15" 19" rack-mounting hardware available
Connections	Input: Screw type terminal block Output: Screw type terminal block Alarm: Form C
Weight	13 pounds (5.9 kg)
Safety	Compliance to IEC950, CSA 22-2-950 and UL 1950 Please contact factory for approval status for the requested input/output configuration

Warranty: Two Years subject to application within good engineering practice

Enhancements to these general specifications can be accommodated upon request

Designed to meet common approval requirements. Specifications Subject to Change Without Notice

Designed and Manufactured in Canada

Available From:



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Quality since 1976

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