

ANALYTIC SYSTEMS

Power Conversion Solutions

#207 12448 82nd Ave.
Surrey, BC V3W 3E9 CANADA

+1 (604) 543-7378 · phone
1-800-668-3884 · toll free
+1 (604) 543-7354 · fax

www.analytic systems.com



(Shown with optional carrying handle)

Benefits

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

Applications

- Marine & other rugged environments
- Automotive / RV
- Electric Utilities and Substations
- Base Station Power (Radio & Telecommunications)
- OEM Applications
- Field Work / Construction Sites
- Solar Power Systems
- Emergency Power Backup (UPS)
- Security Systems
- Charge any 12 or 24 Volt Battery System

AC Battery Chargers

BCA1503 Series Battery Charger

Description

The BCA1503 battery charger provides up to 1350 watts to charge a 12 or 24 Volt battery system (1 bank) from a 110 or 220VAC source. The batteries must share a common ground.

This all-new single board design incorporates state of the art switchmode technology for unmatched efficiency and ultra-quiet operation. Multiple stages of filtering reduce radiated or conducted noise to very low levels. Extra features include audible and visual indicators for low input voltage, low output voltage and over-temperature.

Safety features include both charger and battery over-temperature shutdown, current limiting, short circuit protection with automatic recovery, input undervoltage shutdown and output over-voltage crowbar.

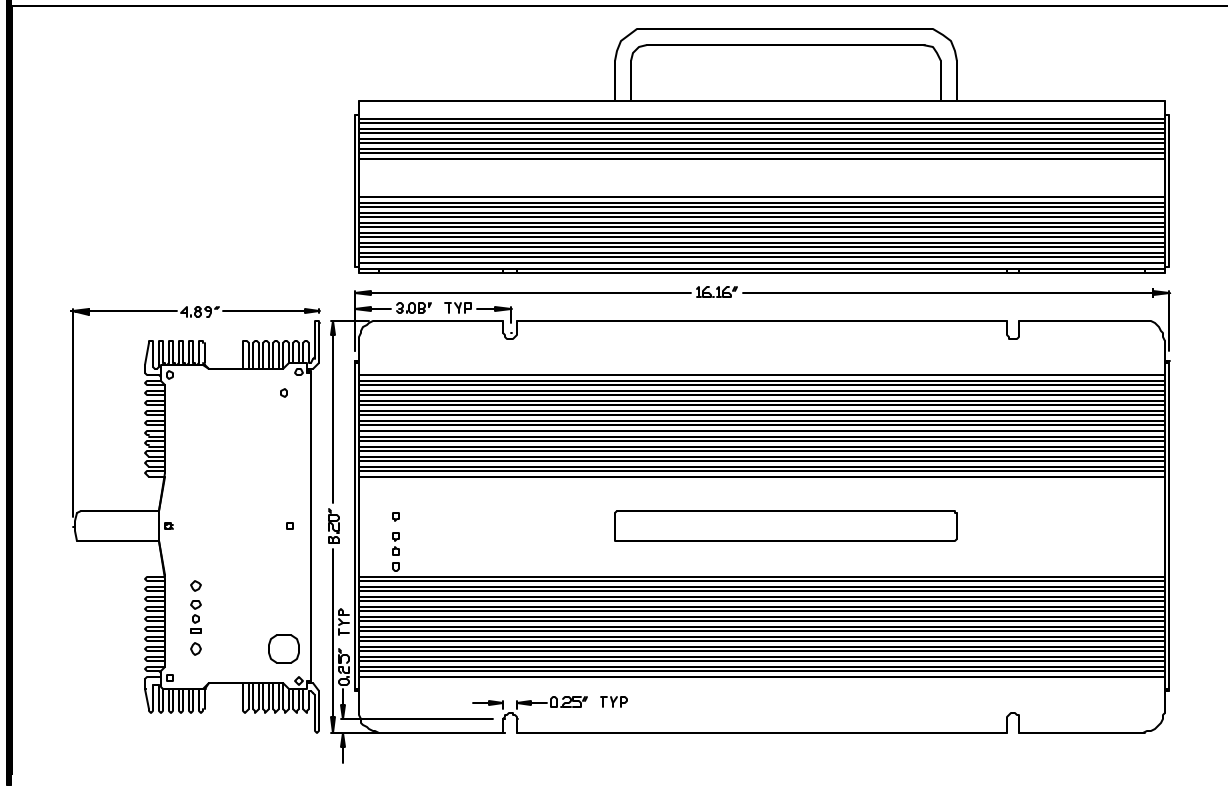
Optional features include a 3-Bank Load Splitter. We are confident that you will get many years of reliable service from this AC Battery Charger.

Features

- Ideal as a Trade Show Power Supply for Auto Shows
- Military-Grade extrusion ensures a high tolerance for shock and vibration
- Ultra-quiet low EMI operation
- Can be left permanently connected
- Can function as a power supply
- Dry contact output fail relay
- 2 stage charging profile
- Over-temperature shutdown
- 3 Bank Load Splitter Available
- Audible & visual indicators for low output voltage & over-temperature
- Short circuit protection
- Output over-voltage crowbar
- Inrush Current Limiting with solid state bypass
- Thermostatically controlled fan
- 3 year parts and labour warranty

BCA1503 Series Battery Charger

Mechanical Diagram



Specifications

Electrical (Input)

Nominal Vac (ip)	110	220
Actual (Vac)	105-125	210-250
Input Amps (max)	16.2	8.1
Input Fuse (MDA)	20A	10A
Input Frequency	45-65 Hz	
Noise on Input	< 50 mV	

Environmental Specifications

Operating Temp. Range	-25° to +50°C @ maximum output Derate Linearly 2.5% per °C from 40°C (Optional -40°C extra wide temp. operation avail.)
Humidity	0 - 95°C Relative Humidity (non-condensing) with optional conformal coating
Audible Noise	NONE Ødb @ 3 ft (34.5 dB when fan operating)
Typical Service Life	> 10 yrs. (87,600 hrs)
Isolation	Input-Case & Input-Output 1500VDC / Output-Case 500VDC
Vibration	Meets MIL-PRF-44485

Electrical (Output)

Output Nominal (op)	12	24
Output Volts (DC)	13.6 ± 0.05	27.2 ± 0.05
Charging Amps	100	50
Output Fuses (ATC)	40 x 3	40 x 2
Battery Banks	1 (3 Bank Load Splitter Available)	
Output Crowbar	16.0 ± 0.5V	32.0 ± 1.0V
Battery Size (Amp Hrs.)	400 - 600	200 - 300
Output Ripple & Noise	< 50 mV	
Regulation (Line & Load)	< +/- 0.5%	
Duty Cycle	Continuous 100% for 24 hours per day	
EMC	Meets MIL461E	
Efficiency	> 75% @ Maximum Output	
Stages	2	

Mechanical Specifications

Length	17.0 in / 43.2 cm
Width	8.2 in / 20.8 cm
Height	3.5 in / 8.9 cm (without carrying handle)
Clearance	1 inch (2.5 cm) all around
Material	Marine Grade Aluminium
Finish	Clear Chromate
Fastenings	All 18-8 Stainless Steel
Weight	14.4 lb / 6.6 kg
Connections	Four contact output terminals
Warranty	3 years
Safety	UL458 & CSA 22.2.107.1 pending

Available From:



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Quality since 1976

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