

BCA1505 Series AC Battery Charger



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

Battery Chargers

BCA1505 Series

Description

The BCA1505 battery charger provides up to 1350 watts to charge a 12, 24, 36, 48 or 72 Volt battery system (2 bank) from a 110 or 220VAC source.

The batteries must share a common ground. Auto-ranging input is an option.

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 visual indicators for low input voltage, charging 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.

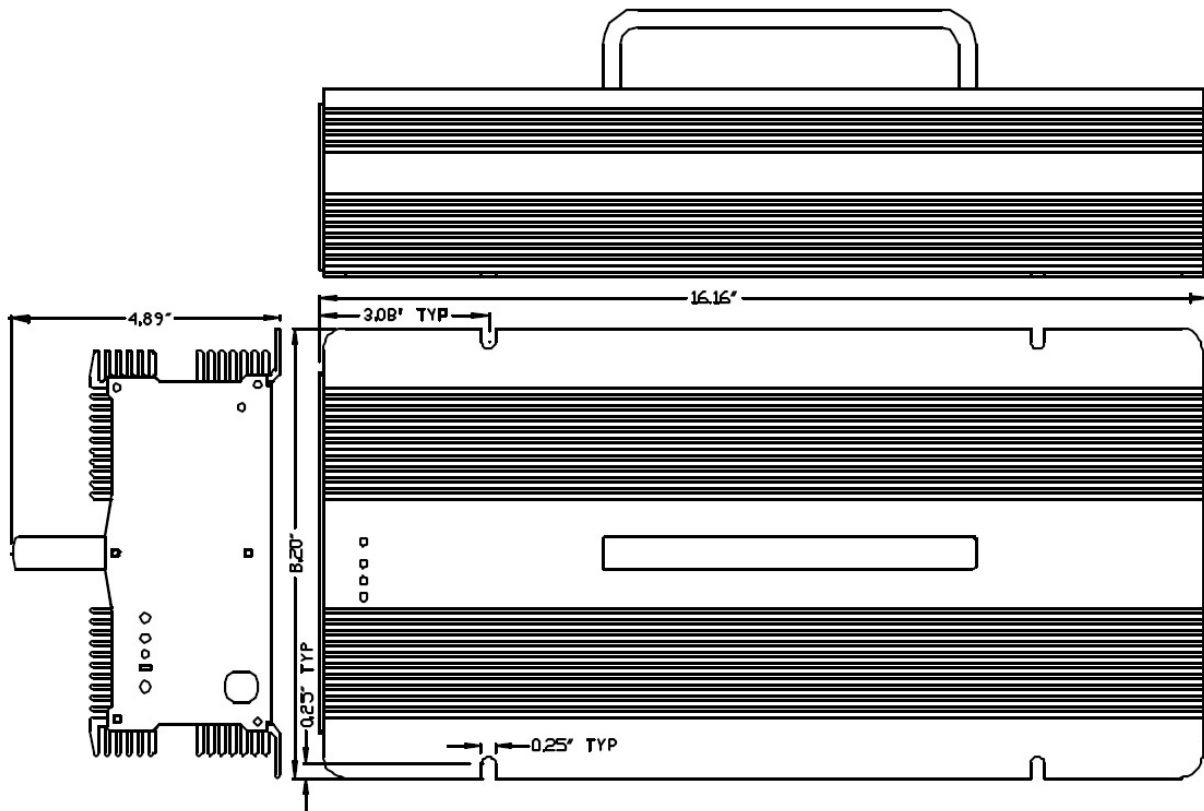
Optional features include a 3-Bank Load Splitter, voltage and current digital display, RCPI Remote Panel, and 120/220 Auto Ranging Input.

We are confident that you will get many years of reliable service from this AC Battery Charger.

Features

- 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
- User selectable 2 or 3 stage charging profile
- Temperature compensated charging
- Over-temperature shutdown
- 3 Bank Load Splitter Available
- Audible & visual indicators for low output voltage & overtemperature
- Short circuit protection
- Output over-voltage crowbar
- Inrush Current Limiting with solid state bypass
- 110/220 Vac auto-ranging input option
- Thermostatically controlled fan
- 3 year warranty

Specifications (Specifications Subject to Change Without Notice)



Electrical (Input)

Nominal Vac (ip)	110	230
Actual (Vac)	90-140	180-284
Input Amps (max)	16.2	8.1
Input Fuse (MDA)	25A	25A
Input Frequency	45-65 Hz	
Noise on Input	< 50 mV	

Environmental Specifications

Operating Temp. Range	-25° to +40°C @ maximum output Derate Linearly 2.5% per °C from 40°C (Optional -40°C to +55°C extra wide-temp. operation avail.)
Humidity	0 - 95% 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 Loose Cargo Test

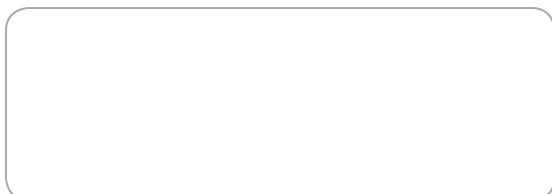
Electrical (Output)

Output Nominal (op)	12	24	32	48	72
Output Volts (DC)	13.6	27.2	36.3	54.4	81.6
Absorption Voltage (VDC)	13.6	28.8	38.4	57.6	86.4
Charging Amps	75	50	37	25	16
Absorption to Float	15A	7.5A	5.6A	3.8A	2.4A
Battery Banks	2 (3 Bank Load Splitter Available)				
Output Crowbar	17.0±0.5V	34.0±1.0V	45.4±1.3V	68.0±2.0V	102±3.0V
Battery Size (Amp Hrs.)	400-600	200-300	150-230	100-150	70-100
Equalize Voltage (VDC)	15.5	31.0	41.3	62.0	93.0
Temperature Compensation Coefficient	-15mV/°C	-30mV/°C	-40mV/°C	-60mV/°C	-90mV/°C
Duty Cycle	Continuous 100% for 24 hours per day				
Efficiency	81-82% @ Maximum Output				
Stages	2 or 3 selectable				
Regulation	< +/- 0.5%				

Mechanical Specifications

Length	41.14 cm
Width	21.21 cm
Height	10 cm (without carrying handle)
Clearance	2.5 cm all around
Material	Marine Grade Aluminium
Finish	Black
Fastenings	All 18-8 Stainless Steel
Weight	6.6 kg
Connections	Flying lead
Warranty	3 years
Safety	Built to meet UL458 & CSA 22.2.107.1 ABS 11-HS794404E-PDA

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