

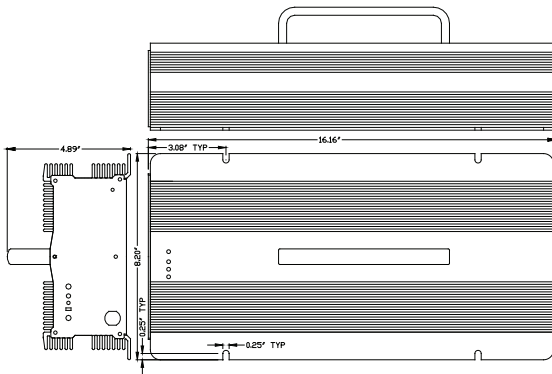


# ANALYTIC SYSTEMS

Power Conversion Solutions

## DC BATTERY CHARGER

### MODEL BCD1505



### Description

The BCD1505 battery charger provides up to 1350 watts to charge 12, 24, 32 or 48 Volt battery systems from a 110, 250, 300 or 360 Volt DC 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 under voltage 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 DC Battery Charger.

### Benefits

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

### Design 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

### 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, 24, 32 or 48 Volt Battery System

An ISO9001 and AS9100 Registered Company Battery Chargers • Inverters • Power Supplies • Voltage Converters

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[www.analyticsystems.com](http://www.analyticsystems.com)

# DC BATTERY CHARGER

# MODEL BCD1505 SERIES

## Electrical (Input)

Nominal DC (ip)	110	250	300	360
Actual (Vac)	100-140	230-280	280-360	330-415
Input Amps (max)	21	9	7.5	6.5
Input Fuse (MDA)	25	15	10	8
Noise on Input	< 50mV			

## Electrical (Output)

Output Nominal (op)	12	24	32	48
Output Volts (DC)	13.6 ± 0.05	27.2 ± 0.05	36.6 ± 0.05	54.4 ± 0.05
Charging Amps	100A	50A	35.5A	25A
Output Fuses (ATC)	40 x 3	40 x 2	40 x 1	40 x 1
Battery Banks	1 (3 Bank Load Splitter Available)			
Output Crowbar	16.0 ± 0.5V	32.0 ± 1.0V	43.7 ± 1.3V	63.9 ± 2.0V
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			
Efficiency	> 80% @ Maximum Output			
Stages	2 stage – Constant Current / Constant Voltage			

## Environment Specification

Operating Temp. Range	-25° to +40°C @ maximum output Derate Linearly 2.5% per °C from 40°C (Optional -40°C extra wide temp. operation avail.)
Humidity	0 - 95% Relative Humidity (non-condensing) with optional conformal coating
Audible Noise	NONE 0db @ 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

## Mechanical Specification

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	Black Anodize
Fastenings	All 18-8 Stainless Steel
Weight	14.4 lb / 6.6 kg
Connections	4ft #6awg input, blk/red #6awg output wires
Warranty	3 years
Safety	Designed to meet CSA 22.2.107.1 & UL458

Note: Specifications are subject to change without notice.



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