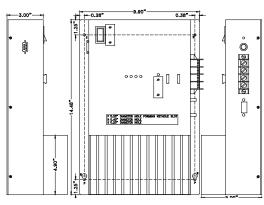


ANALYTIC SYSTEMS

Power Conversion Solutions

DC BATTERY CHARGER MODEL BCD1015 SERIES





Description

The model BCD1015 DC Battery Charger charges 12V, 24V, or 48V battery banks (1 or 2 banks) from a 24, 36, 48 or 72 volt DC power source.

The reliable Current Mode switching design offers power and reliability in a compact package. The low ripple charging current and standard equalize cycle greatly increases the lifetime of expensive battery systems. Extra input and output filtering reduce EMI to extremely low levels. Reliability features include an input fuse, thermal shutdown, current limiting, reverse battery hookup protection and output short circuit protection with automatic recovery.

The output voltage is easily adjusted 1.0 volts above or below the standard output voltage to accommodate special charging requirements.

Optional features include a Digital Volt/Ammeter, Remote Control Panel, and 19" or 23" Rack Mount configurations. We are confident that you will get many years of reliable service from this DC Battery Charger.

Benefits

- Compatible with a wide range of battery types
- Won't interfere with sensitive radio communication systems
- Rugged and reliable to ensure years of safe and trouble free operation
- Fast and accurate charging

Design Features

- Fully isolated design, input and output voltages are completely independent.
- Adjustable output voltage for charging standard or deep cycle lead-acid, VRLA or Gel cell type battery
- Temperature compensated charging profile with battery over temperature protection
- Extremely rugged and well suited for marine and other demanding environments
- High tolerance for shock and vibration
- Low EMI operation
- Can be left permanently connected
- Spark free connection to batteries
- User selectable 2 or 3 stage charging profile
- Audible and visual indicators for output overload, low input voltage, low output voltage and over-temperature
- Over-temperature shutdown with automatic recovery
- Short circuit protection with automatic recovery
- Output over-voltage protection
- Dry contact output fail relay
- Three year parts and labour warranty

Applications

- Marine & other Rugged Environments
- Electric Utilities and Substations
- Manufacturing Plants
- Steel Mills
- Military Applications (COTS)
- Industrial Controls
- OEM Applications
- Solar / Alternative Power Systems
- Fuel Cells

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

8128 River Way, Delta B.C. V4G 1K5 Canada T. 604.946.9981 F. 604.946.9983 TF. 800.668.3884 (US/CANADA)

DC BATTERY CHARGER | MODEL BCD 1015 SERIES

24	36	48	72
20-35	30 - 50	40-60	65-90
66.7	45	34	21
40 x 2	30 x 2	20 x 2	25 x 1
< 50mV			
12	24		48
13.6 ± 0.05	27.2	± 0.05	54.4 ± 0.05
14.4	28.8		57.6
60	40		20
9.0 Amps	6 .0 Amps		3.0 Amps
± 1.0V			
40 x 2	40 x 3	2	25 x 2
1 or 2			
240-360	160-2	240	80-120
16.0 ± 0.5V	32.0	± 1.0V	63.9 ± 2.0V
< 50 mV			
< +/- 0.5%			
-30 mV/°C	-60 n	v∕°C	-120 mV/°C
Continuous 100%	6 for 24 hours per day		
> 82.6% @ Maxir	num Output		
2 or 3 (user select	table)		
			n 40°C
0 - 95% Relative Humidity	/ (non-condensing) wit	h standard conforma	al coating
NONE Ødb @ 3 ft (34.5 dB when fan operating)			
> 10 yrs. (87,600 hrs)			
Input-Case, Output-Case & Input-Output 1500VDC			
14.5 in / 36.8 cm			
9.9 in / 25.1 cm			
5.0 in / 12.7 cm			
1 inch (2.5 cm) all around			
Marine Grade Aluminium			
Black Anodize / Po	owder Epoxy Coat		
All 18-8 Stainless	Steel		
12.0 lb / 5.5 kg			
Input - Flying Lead	ls; Output - Four positi	ion terminal Block	
Input - Flying Leac Three years parts		ion terminal Block	
	20-35 66.7 40 x 2 < 50mV 12 13.6 ± 0.05 14.4 60 9.0 Amps ± 1.0V 40 x 2 1 or 2 240-360 16.0 ± 0.5V < 50 mV < +/- 0.5% -30 mV/°C Continuous 100% > 82.6% @ Maxir 2 or 3 (user select -25° to +40°C @ maximur (Optional -40°C - +55°C e 0 - 95% Relative Humidity NONE Ødb @ 3 ft (34.5 df > 10 yrs. (87,600 hrs) Input-Case, Output-Case 8 14.5 in / 36.8 cm 9.9 in / 25.1 cm 5.0 in / 12.7 cm 1 inch (2.5 cm) all Marine Grade Alu Black Anodize / Po All 18-8 Stainless	20-35 30 - 50 66.7 45 40 x 2 30 x 2 < 50mV	20-35 30 - 50 40-60 66.7 45 34 40 x 2 30 x 2 20 x 2 <50mV



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