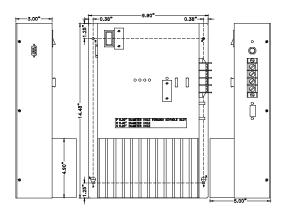


DC BATTERY CHARGER

MODEL BCD1000 SERIES





Description

The model BCD1000 Battery Charger charges either 12V, 24V or 48V batteries from a 110, 220 or 300VDC power source. Other battery voltages up to 72 volts are also available by special order.

The all-new Current Mode switching design offers increased power and reliability in a compact package. 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, output short circuit shutdown with automatic recovery and an equalize charge mode. 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/or 19" Rackmounting. 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

- Fully Isolated Design
- Adjustable output voltage for charging standard or deep cycle lead-acid, VRLA or Gel cell type battery
- Transient Voltage Suppressor
- Extremely rugged and well suited for marine and other demanding environments
- High tolerance for shock and vibration
- Ultra-quiet low EMI operation
- Can be left permanently connected
- Spark free connection
- User selectable 2 or 3 stage charging profile
- Audible & visual indicators for output overload, low input voltage, low output voltage & over-temperature
- Over-temperature shutdown
- Short circuit protection
- Output over-voltage crowbar
- Inrush Current Limiting with solid state bypass
- Dry contact output fail relay
- 3 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
- Charge any DC/DC System

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DATTEIT OHAHGEH DOD 1000 OF	IIILU		
Electrical (Input)			
Nominal (ip)	110 250 300		
Actual (Vac)	100-140 230-280 280)-360	
Input Amps (max)	14.8 6.5 5.3		
Input Fuse (MDA)	15 7 6		
Noise on Input	< 50mV		
Electrical (Output)			
Output Nominal (op)	12 24 48		
Output Volts (DC)	13.6 ± 0.05 27.2 ± 0.05 54.4 ± 0	0.05	
Absorption Voltage (Vdc)	14.4 28.8 57.6		
Charging Amps	60 40 20		
Absorption to Float	9 .0 Amps 6 .0 Amps 3.0 Amp	ps	
Output Adjustment (Vdc)	± 1.0V		
Output Fuses (ATC)	40 x 2 40 x 2 25 x 2		
Battery Banks	1 or 2 (3 Bank Option Available)	1 or 2 (3 Bank Option Available)	
Battery Size (Amp Hrs.)	240-360 160-240 80-120		
Output Crowbar	16.0 ± 0.5V 32.0 ± 1.0V 63.9 ± 2	2.0V	
Output Ripple & Noise	< 50 mV		
Regulation (Line & Load)	<+/- 0.5%		
Temperature Comp.	-30 mV/°C -60 mV/°C -120 m\	V/°C	
Duty Cycle	Continuous 100% for 24 hours per day	Continuous 100% for 24 hours per day	
Efficiency	> 80% @ Maximum Output		
Stages	2 or 3 (user selectable)	2 or 3 (user selectable)	
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. operatio		
Humidity	0 - 95% Relative Humidity (non-condensing) with optional conformal	0 - 95% Relative Humidity (non-condensing) with optional conformal coating	
Audible Noise	NONE Ødb @ 3 ft (34.5 dB when fan oper	NONE Ødb @ 3 ft (34.5 dB when fan operating)	
Typical Service Life	> 10 yrs. (87,600 hrs)	> 10 yrs. (87,600 hrs)	
Isolation	Input-Case & Input-Output 1500VDC Output-Case 500VDC (1500V @ 48V Outpu	Input-Case & Input-Output 1500VDC Output-Case 500VDC (1500V @ 48V Output)	
Mechanical Specification			
Length	14.5 in / 36.8 cm	14.5 in / 36.8 cm	
Width	9.9 in / 25.1 cm	9.9 in / 25.1 cm	
Height	5.5 in / 14.0 cm	5.5 in / 14.0 cm	
Clearance	1 inch (2.5 cm) all around	1 inch (2.5 cm) all around	
	A4 : 0 1 A1 ::	Marine Grade Aluminium	
Material	Marine Grade Aluminium	Black Anodize / Powder Epoxy Coat	
Finish			
Material Finish Fastenings Weight	Black Anodize / Powder Epoxy Coat		
Finish Fastenings	Black Anodize / Powder Epoxy Coat All 18-8 Stainless Steel		
Finish Fastenings Weight	Black Anodize / Powder Epoxy Coat All 18-8 Stainless Steel 12.0 lb / 5.5 kg		

Note: Specifications are subject to change without notice.



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