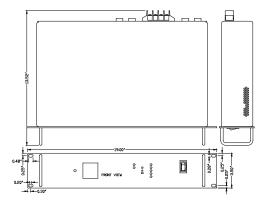


DC BATTERY CHARGER

MODEL BCD610R Series





Description

The model BCD610R Rackmount DC Battery Charger charges either 12V, 24V or 48V batteries from a 110, 220 or 300VDC power source. Other battery voltages up to 360 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 equalize charging cycle. The output voltage is easily adjusted 1.0 volts above or below the standard output voltage to accommodate special charging requirements.

A high quality Digital Volt/Ammeter allows the monitoring of charging current and charging voltage. 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 and reliable to ensure years of safe and trouble free operation
- Fast and 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
- 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
- Charge any DC/DC System

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

DC BATTERY CHARGER

MODEL BCD610R Series

trical (Input)					
nal (ip)	110	250	300		
l (Vac)	100-140	230-280	280-360		
Amps (max)	8.2	3.6	2.9		
Fuse (MDA)	10	4	3		
on Input	< 50mV				
trical (Output)					
rt Nominal (op)	12	24	48		
it Volts (DC)	13.6 ± 0.05	27.2 ± 0.05	54.4 ± 0.05		
ption Voltage	14.4	28.8	57.6		
ing Amps	40	22	11		
ption to Float	6.0 Amps	3.3 Amps	1.65 Amps		
rt Adjustment (Vdc)	± 1.0V				
rt Fuses (ATC)	20 x 4	30 x 2	15 x 2		
ry Banks	1 or 2 (Optional	1 or 2 (Optional 3-bank)			
ry Size (Amp Hrs.)	160 - 240	88 - 132	44 - 66		
ıt Crowbar	16.0 ± 0.5V	32.0 ± 1.0V	63.9 ± 2.0V		
rt Ripple & Noise	< 50 mV				
ation (Line & Load)	<+/- 0.5%				
erature Comp.	-30 mV/°C	-60 mV/°C	-120 mV/°C		
Cycle	Continuous 100	1% for 24 hours	per day		
ency	> 75% @ Maxim	>75% @ Maximum Output			
S	2 or 3 (user selec	2 or 3 (user selectable)			
ronment Specification					
iting Temp. Range	Derate Linearly 2	-25°C to +40°C @ maximum output Derate Linearly 2.5% per °C from 40°C (Optional -40°C - +55°C extra wide temp. operation avail.)			
dity		0 - 95% Relative Humidity (non-condensing) with standard conformal coating			
le Noise	NONE Ødb @ 3	NONE Ødb @ 3 ft			
al Service Life	> 10 yrs. (87,600	> 10 yrs. (87,600 hrs)			
ion		Input-Case & Input-Output 1500VDC Output-Case 500VDC (1500V @ 48V Output)			
hanical Specification					
	13.5 in/ 34.3 cm	13.5 in/ 34.3 cm			
1	19.0 in/ 48.3 cm	19.0 in/ 48.3 cm			
	0 10 5 : 1/ 0 0	2u (3.5 in.)/ 8.9 cm			
t	2u (3.5 in.)/ 8.9 d		1 inch (2.5 cm) all around		
		all around			
t					
t ance	1 inch (2.5 cm) a	luminium	Coat		
t ance rial	1 inch (2.5 cm) a Marine Grade Al	luminium Powder Epoxy	Coat		
t ance rial	1 inch (2.5 cm) a Marine Grade Al Black Anodize /	luminium Powder Epoxy	Coat		
t ance rial nings	1 inch (2.5 cm) a Marine Grade Al Black Anodize / All 18-8 Stainles	luminium Powder Epoxy ss Steel	Coat		
t ance rial nings	1 inch (2.5 cm) a Marine Grade Al Black Anodize / All 18-8 Stainles 7.6 lb / 3.3 kg	Powder Epoxy ss Steel	Coat		

Note: Specifications are subject to change without notice.



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