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www.analyticsystems.com



### Benefits

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

### **Applications**

- Telecom Power Plants
- Electric Utilities and Substations
- Marine & other rugged environments
- Base Station Power
- Industrial Controls (OEM Applications)
- Solar / Alternative Power Systems
- Emergency Power Backup (UPS)
- Security Systems
- Charge any 12, 24, 32, or 48 Volt System

# DC Battery Chargers

**BCD1000R** Isolated Battery Charger

### Description

The model BCD1000R Rackmount DC 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 0.5 volts above or below the standard output voltage to accommodate special charging requirements.

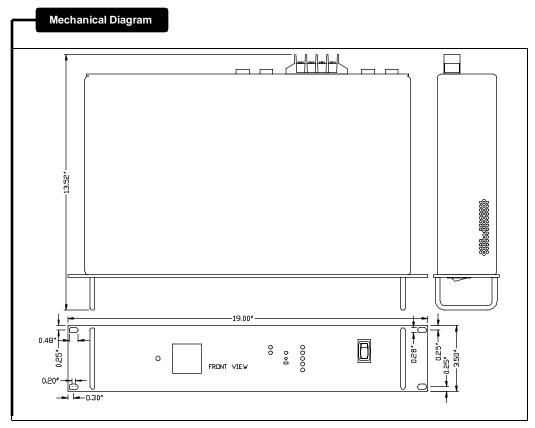
A high quality Digital Volt/Ammeter allows the monitoring of charging current and charging voltage. We are confident that you will get many years of reliable service from this DC Battery Charger.

### 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

## BCD1000R Series DC Battery Charger



### **Specifications**

### Electrical (Input)

Nominal (ip)	110	250	300
Actual (Vac)	100-140	230-280	280-360
Input Amps (max)	14.4	6.3	5.1
Input Fuse (MDA)	15	7	6
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 extra wide-temp. operation avail.)		
Humidity	0 - 95°C 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		

### **Electrical (Output)**

**Available From:** 

12	24	48
13.6 ± 0.05	$27.2 \pm 0.05$	$54.4 \pm 0.05$
14.4	28.8	57.6
60	40	20
6.0 Amps	4.0 Amps	2.0 Amps
± 0.5V		
40 x 2	40 x 2	25 x 2
1 or 2 (3 Bank Option Available)		
240-360	160-240	80-120
$16.0 \pm 0.5 V$	$32.0 \pm 1.0 \text{V}$	$63.9 \pm 2.0 \text{V}$
< 50 mV		
< +/- 0.5%		
-30 mV/°C	-60 mV/°C	-120 mV/°C
Continuous 100% for 24 hours per day		
> 80% @ Maximum Output		
2 or 3 (user selectable)		
	13.6 ± 0.05 14.4 60 6.0 Amps ± 0.5V 40 x 2 1 or 2 (3 Bank 240-360 16.0 ± 0.5V < 50 mV < +/- 0.5% -30 mV/°C Continuous 100 > 80% @ Maxi	13.6 ± 0.05 27.2 ± 0.05  14.4 28.8  60 40  6.0 Amps 4.0 Amps  ± 0.5V  40 x 2 40 x 2  1 or 2 (3 Bank Option Available 240-360 160-240  16.0 ± 0.5V 32.0 ± 1.0V  < 50 mV  < +/- 0.5%  -30 mV/°C -60 mV/°C  Continuous 100% for 24 hours  > 80% @ Maximum Output

### **Mechanical Specifications**

13.5 in	
19"	
2u (3.5 in.)	
1 inch (2.5 cm) all around	
Marine Grade Aluminium	
Black Anodize / Powder Epoxy Coat	
All 18-8 Stainless Steel	
12.0 lb / 5.5 kg	
Four contact output terminals	
3 years	
cETLus to UL1012 & CSA22.2 Pending	



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