

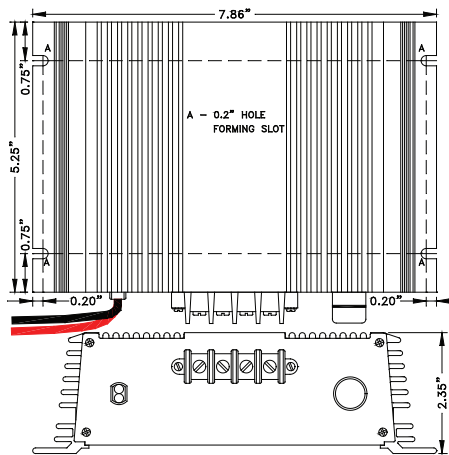


# ANALYTIC SYSTEMS

Power Conversion Solutions

## DC BATTERY CHARGER

## MODEL BCD180 SERIES



### Benefits

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

### Design Features

- Input voltage range allows operation from 24 or 32 VDC. 48 and 72 VDC also available,
- Extremely rugged and well suited for marine and other demanding environments
- High tolerance for shock and vibration
- Ultra-quiet low EMI operation
- Inrush protection
- Current limiting protection
- Reverse input protection
- High efficiency
- Output over-voltage crowbar
- Remote control option
- Wide-Temperature operation available
- Conformal coating and/or harsh environment ruggedization available
- 3 year parts and labour warranty

### Description

The BCD180 Battery Charger can be configured to run from a 24V, 32V, 48V or 72 VDC power systems to provide output voltages as shown below.

The BCD180 Series Battery Chargers features reverse input protection, current limiting, output over-voltage protection, ultra quiet low EMI operation and a wide operating temperature range.

We are confident that you will get many years of reliable service from this DC Source Battery Charger.

### Applications

- Marine & other rugged environments
- Mobile Offices (TV and Radio Vans)
- Automotive / RV
- Electric Utilities and Substations
- Base Station Power(Radio & Telecommunications)
- Industrial Controls(OEM Applications)
- Field Work / Construction Sites
- Solar / Alternative Power Systems
- Emergency Backup Power (UPS)

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

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

# DC BATTERY CHARGER | MODEL BCD180 SERIES

Electrical (Input)			
Input Volts (ip)	32	48	72
Actual (Vdc)	* 20-45	40 – 65	65 – 100
Input Amps (max)	**11.3	6.8	4.3
Input Fuse (MDA)	15	10	5
Noise on Input	< 10 mV		
Electrical (Output)			
Output Nominal (op)	12	24	
Output Volts (DC)	13.6 ± 0.05	27.2 ± 0.05	
Output Amps	15 cont.	7.5 cont.	
Output Crowbar	16.0 ± 0.5V	32.0 ± 1.0V	
Output Ripple & Noise	< 10 mV		
Transient Response	< 1V for 50% Surge		
Regulation (Line & Load)	< +/- 0.5%		
Duty Cycle	Peak 20% for 10 min maximum Continuous 100% for 24 hours per day		
Efficiency	> 90% @ Maximum Output		
Environment Specification			
Operating Temp. Range	-20° 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 Ødb @ 3 ft		
Typical Service Life	> 10 yrs. (87,600 hrs)		
Isolation	Input to Case 1500VDC (500VDC @ 32V Input) 500VDC Output to Case		
Mechanical Specification			
Length	7.9 in / 20.1 cm		
Width	7.9 in / 20.1 cm		
Height	2.4 in / 6.1 cm		
Material	Marine Grade Aluminium		
Finish	Black Anodize / Powder Epoxy Coat		
Fastenings	All 18-8 Stainless Steel		
Weight	4.0 lb / 1.8 kg		
Connections	Four contact output terminals		
Warranty	3 years		
Safety	Designed to meet CSA 22.2.107.1 & UL458		

\*30 - 45 Vdc input range for a 24Vdc output

\*\* 7.6A for 24 Vdc output

Note: Specifications are subject to change without notice.



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