

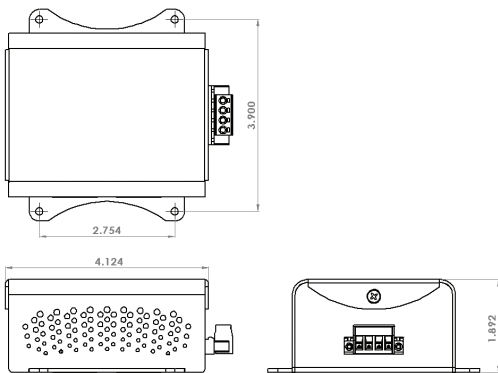


# ANALYTIC SYSTEMS

Power Conversion Solutions

## DC BATTERY CHARGER

### MODEL BCD90 SERIES



### Benefits

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

### Design Features

- Input voltage range allows operation from 20VDC to 100 VDC volt power systems
- Reverse input protection
- Extremely rugged and well suited for marine and other demanding environments
- High tolerance for shock and vibration
- Short circuit protection
- Output over-voltage crowbar
- Inrush Current Limiting
- Easily Mounted
- Wide operation Temperature range
- Remote On-Off version available (call factory for details)
- Conformal Coating and/or Harsh Environment Ruggedization Available
- 3 year parts and labour warranty

### Description

The BCD90 Series Battery Charger supplies 12,24,36,48 or 72 Vdc from 24/32, 48 or 72 Vdc battery systems for use in heavy equipment, marine, industrial, or alternative energy environments. For current and voltage specifics, refer to the table on the other side of this data sheet.

State of the art Switch-mode design offers high reliability, high efficiency, and minimum size.

The unit has reverse input protection, output current limiting and output overvoltage protection.

### Applications

- Oil Patch
- Mobile Offices (TV and Radio Vans)
- Marine / Automotive / RV
- Industrial Controls (OEM Applications)
- Computer Systems
- Field Work / Construction Sites
- Solar / Alternative Power Systems
- Run any 5V, 12V or 24V Equipment

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)

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

# DC BATTERY CHARGER

# MODEL BCD90 SERIES

		Input Volts					
		Nominal	24	36	48	72	
		Min / Max	20 / 32	30 / 48	40 / 64	60 / 96	
Output Volts	Nominal	Actual	Output Amps				Output Crowbar
	12	13.6	10.0	8.1	7.0	5.7	16
	24	27.2		5.7	5.0	4.1	32
	36	40.8			4.1	3.3	45
	48	54.4				2.9	60
Volts		Continuous				Volts	

## Electrical

Input Ripple & Noise	< 100 mV Peak to Peak
Output Ripple & Noise	< 50 mV Peak to Peak
Transient Response	< 150 mV for 50% Load Step Change
Regulation (Line & Load)	< +/- 0.5%
Overload Capability	120% rated current for 1 minute max at 10% duty cycle
Efficiency	> 93% @ Maximum Output

## Environment Specification

Operating Temp. Range	-20°C to +55°C @ maximum output
Humidity	0 – 95% Relative Humidity
Audible Noise	NONE Ødb @ 3 ft
Typical Service Life	> 10 yrs. (87,600 hrs)
Isolation	Any Input or Output to Case 500 VDC, 1500 VDC for 48 and 72 input

## Mechanical Specification

Length	4.12 in / 10.5 cm
Width	4.30 in / 10.9 cm
Height	1.56 in / 3.96 cm
Material	Marine Grade Aluminum
Finish	Red Anodized / Powder Epoxy Coat
Fastenings	All 18-8 Stainless Steel
Weight	0.62 lb / 0.28 kg
Warranty	3 years

Note: Specifications are subject to change without notice.



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