

# DC SOURCE BATTERY CHARGER BCD605

er Conversion Solutions Power Conversion Solutions



## BCD605 DC SOURCE BATTERY CHARGER

The BCD605 battery charger outputs up to 600 watts to charge a 12V or 24V battery system (1 or 2 banks) from a 12 volt source. The source voltage must be less than or equal to the output voltage and the batteries under charge must share a common ground. Multiple stages of filtering reduce radiated or conducted noise to very low levels.

The two stage charging profile charges the batteries at a constant current until the battery voltage reaches the float voltage that the unit is set to and then the current into the batteries will taper off as necessary to maintain the batteries at the float voltage.

The unit can be left permanently connected without fear of overcharge or damage to the batteries. The adjustable float voltage feature allows the unit to be used for any type of lead-acid battery including lead acid and gel cell.

## Available models

Input

12V

Output

12V
24V

Applications

Image: State S



# **BCD605 | DC SOURCE BATTERY CHARGER**

#### INPUT

Nominal (ip)	12
Actual (Vdc)	10.5 - 14
Input Amps (max)	50
Input Fuse (AGC)	30 A x 2
Noise on Input	< 50 mV
Low Input Voltage Alarm	10.5 V

#### OUTPUT

Output Nominal (op)	12		24
Output Volts (DC)	13.6 ± 0.05		27.2 ± 0.05
Charging Current (amps)	*40		*20
Output Adjustment	$\pm 0.5 \text{ V}$		
Output Crowbar	$16.0 \pm 0.5 \text{ V}$		32.0 ± 1.0 V
Output Fuse (AGC)		25 A x 2	
Output Ripple & Noise		< 50 mV	
Battery Banks		1	
Stages		2	
Battery Size (Amp Hours)	160-240		80-120
Regulation (Line & Load		< +/- 0.5%	
Duty Cycle		Continuous 1009	% for 24 hours per day
Efficiency		> 90% @ Maxim	um Output

**OPTIONS** 

European ROHS compliant (Lead Free Manufactured)

Electric Fork Lift (Filtering and Surge Suppression)

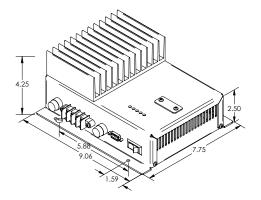
Open frame (No chassis, just heat sink bars)

Safety Special Inspection (CSA/UL)

Heavy duty ruggedization with wide temperature range

Custom input/output available

#### DIMENSIONS



\*The actual charging rate depends upon the input/output voltage ratio. To obtain the charging capability at any given input voltage, use the following formula: Charging Current = Input Volts / Output Volts x 26. For example, at 11 VDC in and 13.6 VDC out, the charging current = 11 / 13.6 x 26 = 21.0 amps.

### MECHANICAL

Dimensions	9.1 in / 23.1 cm Long x 7.8 in / 19.8 cm Wide x 4.3 in / 10.9 cm High
Clearance	1.0 in / 2.5 cm all around
Weight	6.0 lb / 2.7 kg
Material and Finish	Marine Grade Black Anodized Aluminum
Mounting	Wall or Shelf Mount
Connections	2x #10 AWG Input Wires (Positive & Negative). Four contact output terminal

#### **ENVIRONMENTAL AND SAFETY**

Operating Temperature Range	-25°C to +40°C @ maximum output. Derate Linearly 2.5% per °C from 40°C (Optional -40°C wide temperature range available)
Humidity	0 - 95% Relative Humidity (non-condensing) with standard conformal coating
Audible Noise	NONE 0db @ 3ft
Typical Service Life	> 10 years (87,600 hrs)
Isolation	Input – Output Common Negative, Input or Output – Case 500 VDC
Warranty	Three years parts and labor



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