

BCA610



AC SOURCE **BATTERY CHARGER**

Power Conversion So



BCA610 AC SOURCE BATTERY CHARGER

The BCA610 provides up to 600 watts of precision charging power to up to two banks of batteries at 12, 24, 32, 36, 48 or 72(rail) volts DC from a 110 or 220 volts AC power source. The output voltage is easily adjusted 1.0 volts above or below the standard output voltage for standard or deep cycle lead-acid, VRLA or Gel cell type battery.

All models feature user selectable 2-stage or 3-stage charging profiles and temperature compensation for optimum charging. Additionally, user-initiated equalization and voltage temperature compensation greatly increases the lifetime of expensive battery systems.

Extra input and output filtering reduce EMI to extremely low levels and operation is monitored by a bright status indicator LED panel. Reliability features include an input fuse, thermal shutdown, current limiting, reverse battery hookup protection and output short circuit shutdown with automatic recovery.

Available models

Input

110 VAC

Output



Applications







BCA610 | AC SOURCE BATTERY CHARGER

INPUT

Input Volts Nominal	110		220			
Input Volts Actual	90-130		180-260			
Input Amps (max)	10.0		5.0			
Input Fuse (MDA)	12A		6A			
Input Frequency		45-65 Hz				
Noise on Input		< 50 mV				
OUTPUT						
Output Volts Nominal	12	24	32	48	72(rail)	
Output Volts Actual (DC)	13.6 ± 0.05	27.2 ± 0.05	36.3 ± 0.05	54.4 ± 0.05	72.6 ± 0.05	
Absorption Voltage (Vdc)	14.4	28.8	38.4	57.6	76.8	
Charging Amps	40	20	15	10	7.5	
Absorption to Float (15%)	6.0 Amps	3.0 Amps	2.3 Amps	1.5 Amps	1.1 Amps	
Output Adjustment	± 1.0 V	± 2.0 V	± 3.0 V	± 4.0 V	± 6.0 V	
Output Fuses (ATC)	40 Amp x2	30 Amp x2	20 Amp x2	15 Amp x2	15 Amp x2	
Battery Banks	1 or 2 (3 bank option available)					
Battery Size (Amp Hrs)	160 - 240	80 - 120	60 - 90	40 - 60	30 - 45	
Output Crowbar	$16.0\pm0.5V$	$32.0 \pm 1.0 V$	42.7 ± 1.3V	$63.9\pm2.0V$	$85.4 \pm 2.0 V$	
Output Ripple & Noise	< 50 mV < +/- 0.5%					
Regulation (Line & Load)						
Temperature Comp.	-30 mV/°C	-60 mV/°C	-80 mV/°C	-120 mV/°C	-160 mV/°C	
Duty Cycle	Continuous 100% for 24 hours per day					
Efficiency	> 75% @ Maximum Output					
Stages	2 or 3	2 or 3 (user selectable)				

OPTIONS

European ROHS compliant (Lead Free Manufactured)

GMDSS - Digital Volt/Amp Meter & Remote control kit.

Open frame (No chassis, just heat sink bars)

19" or 23" Rackmount Chassis c/w Digital Volt/Ammeter

3 Bank charging output

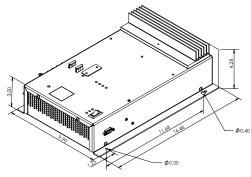
Safety Special Inspection (CSA/UL)

Integrated Digital Volt/Ammeter

Heavy duty ruggedization with wide temperature range

Custom input/output available

DIMENSIONS





ENVIRONMENTAL AND SAFETY

1.0 in / 2.5 cm all around

Wall or Shelf Mount

Four contact output terminals

Marine Grade Black Anodized Aluminum

7.2 lb / 3.3 kg

MECHANICAL

Material and Finish

Dimensions

Clearance Weight

Mounting Connections

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-Case, Input-Output and Output-Case 1500 VDC			
Warranty	Three Years Parts and Labor			
Safety	Certified to CSA C22.2 No.107.1 and UL 1012			

14.5 in / 36.8 cm Long x 9.9 in/ 25.1 cm Wide x 4.4 in / 11 cm High