



# AC BATTERY CHARGER

# MODEL BCA610R SERIES

Electrical (Input)		
Nominal (ip)	110	220
Actual (Vac)	90-130-	180 - 260
Input Amps (max)	9.3	4.7
Input Fuse (MDA)	10A	5A
Input Frequency	45-65 Hz	
Noise on Input	< 50 mV	

Electrical (Output)					
Output Nominal (op)	12	24	32	48	72
Output Volts (DC)	13.6 ± 0.05	27.2 ± 0.05	36.3 ± 0.05	54.4 ± 0.05	81.6 ± 0.05
Absorption Voltage (Vdc)	14.4	28.8	38.4	57.6	86.4
Charging Amps	40	22	16.5	11	7
Absorption to Float (15%)	6.0 Amps	3.3 Amps	2.48 Amps	1.65 Amps	1.05 Amps
Output Adjustment (Vdc)	± 1V				
Output Fuses (ATC)	40 x 2	30 x 2	20 x 2	15 x 2	15 x 2
Battery Banks	1 or 2 (3 Bank Option Available)				
Battery Size (Amp Hrs.)	160 - 240	88 - 132	66 - 99	44 - 66	22 - 33
Output Crowbar	16.0 ± 0.5V	32.0 ± 1.0V	42.7 ± 1.3V	63.9 ± 2.0V	
Output Ripple & Noise	<50 mV				
Regulation (Line & Load)	< +/- 0.5%				
Temperature Comp.	- 30 mV/°C	- 60 mV/°C	- 80 mV/°C	- 120 mV/°C	- 240 mV/°C
Duty Cycle	Continuous 100% for 24 hours per day				
Efficiency	> 75% @ Maximum Output				
Stages	2 or 3 (user selectable)				

Environmental Specification	
Operating Temp. Range	-25°C 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 (34.5 dB when fan operating)
Typical Service Life	> 10 yrs. (87,600 hrs)
Isolation	Input-Case & Input-Output 1500VDC. Output-Case 500VDC (1500V @ 48V Output)

Environmental Specification	
Depth	13.5 in/ 34.3 cm
Width	19.0 in/ 48.3 cm
Height	2¼(3.5 in)/ 8.9 cm
Clearance	1 inch (2.5 cm) all around
Material	Marine Grade Aluminium
Finish	Black Anodize / Powder Epoxy Coat
Fastenings	All 18-8 Stainless Steel
Weight	12.0 lb / 5.5 kg
Connections	Four contact output terminals
Warranty	3 years
Safety	Designed to meet CSA 22.2.107.1 & UL458

Note: Specifications are subject to change without notice.



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