

PRODUCT OVERVIEW



BCA1550 PRO AC SOURCE BATTERY CHARGER

The BCA1550 PRO battery charger provides up to 1500 watts to charge a one or two bank battery system at 12, 24, 32, 48 or 72 volts from a 90-264 VAC source. The batteries must share a common ground.

Features include user selectable 2-stage or 3-stage charging profiles, temperature compensation and user initiated equalization for optimum charging and maximum battery life.

Protection include output overvoltage, battery or charger over temperature, low input voltage, overload and short circuit.

PRO Features:

- Digital display of voltage and current
- Dry contact output fail relay

Available models

Input

90-264 VAC in, 45-65 Hz

Output

12V

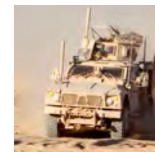
24V

32V

48V

72V

Applications



TECHNICAL SPECIFICATIONS

INPUT					
Volts Actual	90-264 VAC in, 45-65 Hz				
Max. Input Amps	20A (@ 90 VAC in)				
Input Fuse	25 A Slow Blow Part # MDA25A				
Power Factor	>0.99 @ 50/60Hz				
OUTPUT					
Volts Nominal	12 VDC	24 VDC	32 VDC	48 VDC	72 VDC
Charging Amps	100	60	41	28	20
Float Voltage (VDC)	13.5	27.2	36.3	54.4	72.5
Absorption Voltage (VDC)	14.4	28.8	38.8	57.6	76.8
Equalize Voltage (VDC)	15.5	31.0	41.3	62.0	82.7
Equalize Time	1.5, 2.2 or 3.0 Standard hours				
Recommended Battery Size (Amp Hrs)	200-800	100-400	75-300	50-200	35-150
Output Fuses	3x ATM30 Internal	2x ATM25 Internal	2x ATM20 Internal	1x Bel 0697H9150 20A Internal	1x Bel 0697H9200 20A Internal
Output Adjustment	± 1.0 V				
Duty Cycle	Continuous: 100% for 24 hours per day				
Regulation (Line Load)	+/- 0.1 volts				
Efficiency	85% @ Maximum Output				
Charging Stages (Selectable)	2 Stage (CC-Float) or 3 Stage (CC-Absorption-Float), switch selectable				
Battery Banks	1	1 or 2	1 or 2	1 or 2	1 or 2

MECHANICAL	
Dimensions	16.8 in / 42.7 cm Long x 8.2 in / 20.8 cm Wide x 3.8 in / 9.7 cm High
Clearance	1.0 in / 2.5 cm all around
Weight	20.0 lb / 9.9 kg (approximately)
Material and Finish	Extruded aluminum chassis and bottom cover, billet machined aluminum end plates, all black anodized.
Mounting	Wall or shelf mount
Connections	Integrated color coded terminal blocks

ENVIRONMENTAL AND SAFETY	
Operating Temperature Range	-25°C to +40°C @ maximum output. Derate Linearly 2.5% per °C from 40°C
Humidity	0 - 95% Relative Humidity (non-condensing) with standard conformal coating
Isolation	>Input-Case, Input-Output and Output-Case: 1500 VDC
Audible Noise	20 dB @ 1 meter when fan operating
Typical Service Life	10 years (87,600 hrs)
Warranty	Five years
Approvals	Meets UL458 / CSA 22.2.107.1 approved

OPTIONS

- Ruggedized and wide temperature
- Canbus / RS232 / remote control port
- Waterproof - sealed to IP66
- UL/CSA special inspection

DIMENSIONS

