

PRODUCT OVERVIEW



BCA1050 PRO BATTERY CHARGER

The BCA1050 PRO provides up to 1000 watts of precision charging power to up to two banks of batteries at 12, 24, 32, 48 or 72 volts DC from a 90-264 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.

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
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Applications



TECHNICAL SPECIFICATIONS

INPUT

Volts Actual	90-264 VAC in, 45-65 Hz
Max. Input Amps	13.1 A (@ 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	80	40	30	20	15
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	Designed to meet UL458 & CSA 22.2.107.1

OPTIONS

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

DIMENSIONS

