

BA500 Series Sealed Lead Acid Fast Chargers

- Universal Input 100 to 250VAC
- Polycarbonate Enclosure Desktop Style
- Optimizes Battery Life with Microcontroller
- Charges Lead Acid Battery
- LED Indicators
- Meets Safety Agency Requirements
- Complies with EMI/RFI Regulations
- Private Label Marking Available
- Modified and Custom Designs Also Available



Model	Battery Voltage [V]	Fast Charge Current [A]	Over Current [A]	Fast Charge Voltage [V]	Float Charge Voltage [V]	Maximum Watts [W]
BA500-06-100-XXXXX	6	1.00	1 +/--10%	7.35	6.90	7.35
BA500-12-050-XXXXX	12	0.50	1 +/--10%	14.70	13.80	7.35
BA500-24-030-XXXXX	24	0.30	5 +/--10%	29.40	27.60	8.82

Input Specification

Input Voltage Range	100 to 250VAC -10%, +6%
Line Frequency	47 to 63 Hz
Input Current	0.3A max. at 110VAC Input
Protection	Internal Primary Current Fuse, Inrush Limiting

Output Specification

Battery Type	Lead Acid Battery
Charging Method	Constant Current and Constant Voltage
Threshold Voltage	>1.75V / Cell
Cycle Charge Voltage	2.45V +/-0.2V / Cell (as measure at PCB output)
Float Charge Voltage	2.30V +/-0.2V / Cell (as measure at PCB output)
Protection	Over-current Protection (Hiccup) Short Circuit Protection
LED Indicator	RED : Charging GREEN : Fully Charge

Environmental Specification

Operating Temperature	0°C to 40°C with no derating
Relative Humidity	5% to 95% non-condensing
Altitude	0 - 10,000 feet
Cooling	Convictional - Non vented case

Input Configuration

IEC320 C8 (N)	N.America Japan/China (B)	Europe/Korea (M)	United Kingdom (G)	Australia (H)

Specify the input configuration Code in your Order.

Part Number Key

<u>BA500</u>	<u>607</u>	<u>050</u>	<u>01</u>	<u>03</u>	<u>K</u>
Family Related Design	Battery Charge Voltage	Charge Constant Current	Miscellaneous	Standard Output Cord Option	Design No.

General Specification

Topology	Switching - Battery Charger
Leakage Current	Less than 250uA
Dielectric Withstand	4,242VDC Primary - Secondary
Storage Temperature	-30 °C to 85 °C
MTBF	61,000 Calculated Hours Minimum.
Approvals and Safety Standards	UL60950-1, IEC/EN60950-1, K60950/K60335-1,2 EMC : EN55022/55024/61000
Case and Dimension	LP4N 95(L) x 54(W) x 32(H) [mm] 3.74(L) x 2.13(W) x 1.26(H) [in]
Case Material	Black 94V0 Polycarbonate
Cord and Connectors	2 Conductor, 18AWG, AULT#3 Connector. Other cable and connectors are available.