

# BHW Series Medical Sealed Lead Acid Fast Chargers

- Universal Input 100 to 250VAC
- Polycarbonate Enclosure Desktop Style
- Optimizes Battery Life
- 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]
BHW-06-355-XXXXX	6	3.55	###	7.35	6.90	26.00
BHW-12-200-XXXXX	12	2.00	###	14.70	13.80	29.00
BHW-24-110-XXXXX	24	1.10	###	29.40	27.60	32.00

Input Specification	
Input Voltage Range	100 to 250VAC -10%, +6%
Line Frequency	47 to 63 Hz
Input Current	0.8A - 0.35A (Lower current with higher voltage)
Protection	Internal Primary Current Fuse, Inrush Limiting

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	Convectional - Non vented case

Output Specification	
Battery Type	Lead Acid 6V/12V/24V
Charging Method	Constant Current and Constant Voltage
Threshold Voltage	>1.75V / Cell
Cycle Charge Voltage	7.35V / 14.7V / 29.4V
Float Charge Voltage	6.9V / 13.8V / 27.6V
Protection	Over-current Protection (Hiccup) Short Circuit Protection
LED Indicator #1 (Green)	ON : Unit Energized OFF : Unit De-Energized
LED Indicator #2 (Amber)	ON : Battery Discharged OFF : Battery Charged

General Specification	
Topology	Switching - Battery Charger
Leakage Current	Less than 100uA
Dielectric Withstand	5,656VDC Primary - Secondary 1,500VAC or 2,150VDC Primary - F.G 500VDC Secondary - F.G
Storage Temperature	-30 °C to 85 °C
Efficiency	Minimum Average Efficiency in Active Mode ≥[0.09 * Ln (Nameplate Output)] + 0.5
Hold-up Time	10ms min. @115VAC 14ms min. @115VAC (5V,6V Model)
Max. Power in No-Load	≤0.5W
MTBF	61,000 Calculated Hours Minimum.
Approvals and Safety Standards	UL60601-1, IEC/EN60601-1, K60950/K60335-1,2 EMC : EN60601-1-1-2/EN55024
Case and Dimension	LP7 - Desktop 129(L) x 77(W) x 40(H) [mm] 5.8(L) x 3.05(W) x 1.59(H) [in]
Case Material	Black 94V0 Polycarbonate
Cord and Connectors	2 Conductor, 18AWG Other cable and connectors are available.

Input Configuration	
IEC320 C14 (F)	
Specify the input configuration Code in your Order.	

Part Number Key					
<u>B</u> VW	<u>0</u> 6	<u>3</u> 55	<u>0</u> 1	<u>0</u> 3	<u>K</u>
Family Related Design	Battery Charge Voltage	Charge Constant Current	Miscellaneous	Standard Output Cord Option	Design No.

