

# BCM Series NiCd/NiMH Fast Chargers

- Universal Input 100 to 250VAC
- Optimizes Battery Life with Microcontroller
- Charges NiCd/NiMH 3 - 12 cell Batteries
- Polycarbonate Enclosure Desktop Style
- LED Indicators
- Meets Safety Agency Requirements
- Complies with EMI/RFI Regulations
- Private Label Marking Available
- Modified and Custom Designs Also Available



Model	Number of Cells	Normal Charge Voltage [V]	Fast Charge Current [A]	Safety Timer [hr]	Maximum Watts [W]
BCM-X1-306-AAA-XXXXX	3 - 6	4.5 - 9.0	0.8 - 1.5	1.5 - 9.0	13.50
BCM-X1-306-AAA-XXXXX	5 - 10	7.5 - 15.0	0.6 - 1.2	1.5 - 8.0	18.00
BCM-X1-306-AAA-XXXXX	8 - 12	12.0 - 18.0	0.6 - 1.0	1.5 - 8.0	18.00

X1 : **Safety Timer** 1 = NiCd / 1.5hr, 2 = NiCd / 3hr, 3 = NiCd / 6hr, 4 = NiCd / 9hr  
 5 = NiMH / 1.5hr, 6 = NiMH / 3hr, 7 = NiMH / 6hr, 8 = NiMH / 9hr  
 AAA : **Fast Charge Current** (060=0.6A, 080=0.8A, 100=1.0A, 120=1.2A, 150=1.5A)

Input Specification	
Input Voltage Range	100 to 250VAC -10%, +6%
Line Frequency	47 to 63 Hz
Input Current	0.7Amax at 110VAC Input
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	NiCd/NiMH 3-12 Cells, NTC:10Kohm/25°C
Charging Method	Constant Current
Threshold Voltage	1.0V +/-0.2V / Cell
Normal Charge Voltage	>1.5V / Cell
Monitoring Fully Charge	-ΔV, 0ΔV, Vmax, Tmax, ΔT/Δt ... etc
Protection	Over-current Protection (Hiccup) Short Circuit Protection
LED Indicator #1 (Green)	ON : Charge OFF : Low/High Temp Charge Blink : Low/High Temp Faulty
LED Indicator #2 (Amber)	ON : Charge OFF : Battery Absent Blink : Low/High Temp Faulty

General Specification	
Topology	Switching - Battery Charger
Leakage Current	Less than 250uA
Dielectric Withstand	4,242VDC Primary - Secondary 1,500VAC or 2,150VDC Primary - F.G 500VDC Secondary - F.G
Storage Temperature	-30 °C to 85 °C
Hold-up Time	16ms min. @115VAC
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	JEC#21 - Desktop 150(L) x 65(W) x 35(H) [mm] 5.9(L) x 2.56(W) x 1.38(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						
BCM	<u>5</u>	<u>306</u>	<u>150</u>	<u>03</u>	<u>01</u>	<u>K</u>
Family Related	Type and Timer	Number of Cells	Charge Constant Current	Standard Cord Options	Output (marking, cord, etc)	Custom Design No.