

BL600 Series Li-ion Fast Chargers

- 100-250 Vac Universal Input
- Polycarbonate Enclosure Desktop Style
- Optimizes Li-ion/Polymer Battery Life
- Automatic Constant Current & Constant Voltage
- Single Color 2LED Indicators
- Meets Safety Agency Requirements
- Complies with EMI/RFI Regulations
- Private Label Marking Available
- Modified and Custom Designs Also Available



Model	Number of Cells	Thermistor Required	Fast Charge Voltage [V]	Fast Charge Current [A]	Cut-off Current [A]	Maximum Watts [W]
BL600-X-02-170-XXXXX	2	YES / NO	8.40	1.70	0.17	6.30
BL600-X-03-140-XXXXX	3	YES / NO	12.60	1.40	0.14	12.60
BL600-X-04-100-XXXXX	4	YES / NO	16.80	1.00	0.10	15.12

X : (Safety Timer) and (with or without Thermistor)

1 = 3hr / No Thermistor

2 = 6hr / No Thermistor

3 = 9hr / No Thermistor

5 = 3hr / Thermistor

6 = 6hr / Thermistor

7 = 9hr / Thermistor

Input Specification

Input Voltage Range	100 to 250VAC -10%, +6%
Line Frequency	47 to 63 Hz
Input Current	0.8A max. at 110VAC Input
Protection	Internal Primary Current Fuse, Inrush Limiting

Output Specification

Battery Type	Lithium Ion/Polymer
Charging Method	Constant Current and Constant Voltage
Fsat Charge Voltage	4.2V +/-0.03V / Cell
Protection	Over-current Protection (Hiccup) Short Circuit Protection
LED Indicators	Amber, Green 2LED

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

C14 (F)

Specify the input configuration Code in your Order.

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	LP6 - Desktop 104(L) x 66(W) x 37(H) [mm] 4.2(L) x 2.6(W) x 1.46(H) [in]
Case Material	Black 94V0 Polycarbonate
Cord and Connectors	Without thermistor 2 conductor, 18 AWG, Ault #3 connector, With thermistor 3 conductor, 20 AWG, Ault #21 connector. Other cable and connectors are available.

Part Number Key

<u>BL</u>	<u>600</u>	<u>1</u>	<u>02</u>	<u>170</u>	<u>03</u>	<u>01</u>	<u>K</u>
Type	Family Related Design	Timer & Thermistor Option	Number of Cells	Charge Constant Current	Miscellaneous Cord Options	Standard Input Cord Options	Design No.