

# JBL745-1 Series Li-ion/Polymer Fast Chargers

- 100-240 Vac Universal Input
- Polycarbonate Enclosure Desktop Style
- Optimizes Li-ion/Polymer Battery Life
- Automatic Constant Current & Constant Voltage
- Dual Color 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	Fast Charge Voltage [V]	Fast Charge Current [A]	Cut-off Current [A]	Maximum Watts [W]
JBL745-1-08-500-XXXXXX	2	8.40	5.00	0.5 +/-10%	42.00
JBL745-1-12-330-XXXXXX	3	12.60	3.30	0.3 +/-10%	42.00
JBL745-1-16-250-XXXXXX	4	16.80	2.50	0.2 +/-10%	42.00
JBL745-1-21-200-XXXXXX	5	21.00	2.00	0.2 +/-10%	42.00
JBL745-1-25-170-XXXXXX	6	25.20	1.70	0.15 +/-10%	42.80
JBL745-1-29-150-XXXXXX	7	29.40	1.50	0.15 +/-10%	44.10

## Input Specification

Input Voltage Range	100 to 240VAC -10%, +10%
Line Frequency	47 to 63 Hz
Input Current	1.0Amax at 110VAC Input
Protection	Internal Primary Current Fuse, Inrush Limiting

## Output Specification

Battery Type	Lithium Polymer or Lithium ion 2-7 Cells
Charging Method	Constant Current and Constant Voltage
Fast Charge Voltage	4.2V +/-0.03V / Cell
Threshold Voltage	2.5V +/-0.03V / Cell
Protection	Over-current Protection (Hiccup) Short Circuit Protection
LED Indicators	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	Convective - 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	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.

## Part Number Key

<u>JBL</u>	<u>745</u>	<u>1</u>	<u>16</u>	<u>250</u>	<u>51</u>	<u>02</u>	<u>F</u>	<u>K</u>
Type	Family Related Design	Battery Type	Charge Constant Voltage	Charge Constant Current	Custom (marking, cord, etc.)	Standard Output Cord Options	Standard Input Cord Options	Design No.