

JBL745-2 Series

Universal Input, 26–32 Watt Output

Sealed Lead Acid Fast Chargers



2 Year Warranty

- 100-240VAC Universal Input
- Optimizes Battery Life
- 6V to 24V Output Models, up to 32W
- Tri-color LED Indicator
- Modified and Custom Designs Available
- Impact-Resistant Polycarbonate Enclosure
- Meets safety agency requirements



International Safety Standard Approvals



Specifications

All Specifications are typical at nominal input, full load at 25°C unless otherwise stated.

| | |
|--|---|
| AC Input 100-240VAC, +/-10%, 47-63 Hz, 1Ø. | Topology Switching – Battery Charger |
| Input Current 1.0A maximum, at 110Vac | Overload Protection Hiccup Mode |
| Inrush Current Inrush limiting provided. | Short Circuit Protection Hiccup Mode |
| Input Fuse Internal Primary Current Fuse is provided. | Approvals and Safety Standards EN/IEC/CSA/UL60950-1, EMC: EN55022/55024/61000 |
| Output Voltage See chart. | Dielectric Withstand Input-Output: 4242VDC, Input-GND: 1500VAC, Output-GND: 500VDC |
| Output Power See chart | Operating Temperature 0° to 40°C, no derating |
| Minimum Load Not required. | Storage Temperature -30 to +85°C. |
| Battery Type: Lead Acid 6V/12V/24V | Relative Humidity 5% to 95%, non-condensing |
| Charging Method: Constant current and constant voltage. | Altitude 0 to 10,000 ft. |
| Threshold Voltage: <1.75V ±0.03V / cell | MTBF >61,000 hours (calculated) |
| Cycle Charge Voltage: 2.45V +/-0.2V / cell (measured at PCB output) | Case Dimensions: 5.9"(L) x 2.56"(W) x 1.38(H)", 149mm(L) x 64mm(W) x 45mm(H) |
| Float Charge Voltage: 2.30V +/-0.2V / cell (measured at PCB output) | Case Material: Black 94V0 Polycarbonate |
| Overvoltage Protection: > 2.5V ± 0.16V / cell | Output Connections: Cable: 18AWG, 2 conductor. Connector: 2.5mm barrel type (Ault #3) connector, center contact (+). Other connector options are available. |
| LED Indicators: LED Off: R/G/A 1 second on/off: Red LED On: Green LED On: Amber LED On: Flickering Red LED: | Battery Unloaded, output shorted. Application of Power, or Power reset. Fast Charge Fully Charged or Trickle Charge Float Charge Error (Output overvoltage (>2.5V /cell), or undervoltage (<1.75V /cell) LED error blink rate is 500 mSec on, 500 mSec off. |

JBL745-2

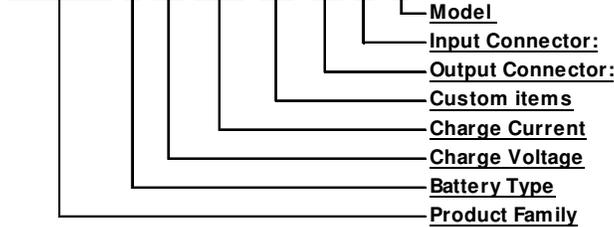
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Model Number Key

JBL745 2 06 500 00 03 F J



"J" = Standard. "02" and higher indicates a modified model.
 "F" = IEC320 C14 grounded
 "03" = 2.5mm Barrel Type connector, center (+). Other options available.
 "00" = Standard Model
 "500" = 5.00A
 "06" = 6V, etc.
 "2" = Lead-Acid

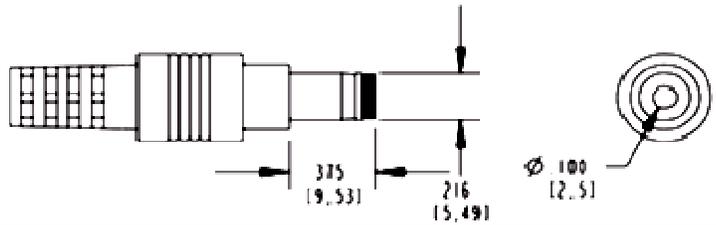
| Model Number | Battery Volts (V) | Fast Charge Current (A) | Switchover Current (A) | Fast Charge Voltage (V) | Float Charge Voltage (V) | Max Watts |
|--------------------|-------------------|-------------------------|------------------------|-------------------------|--------------------------|-----------|
| JBL7452065000003FJ | 6 V | 5.00 A | 0.500 A | 7.35 V | 6.90 V | 26.0 W |
| JBL7452122500003FJ | 12 V | 2.50 A | 0.250 A | 14.7 V | 13.8 V | 29.0 W |
| JBL7452241500003FJ | 24 V | 1.50 A | 0.150 A | 29.4 V | 27.6 V | 32.0 W |

Input Receptacle



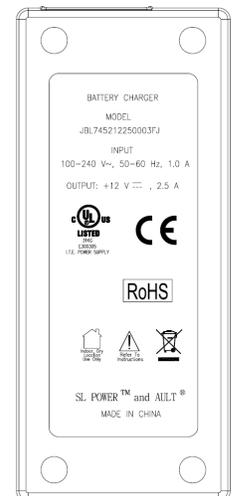
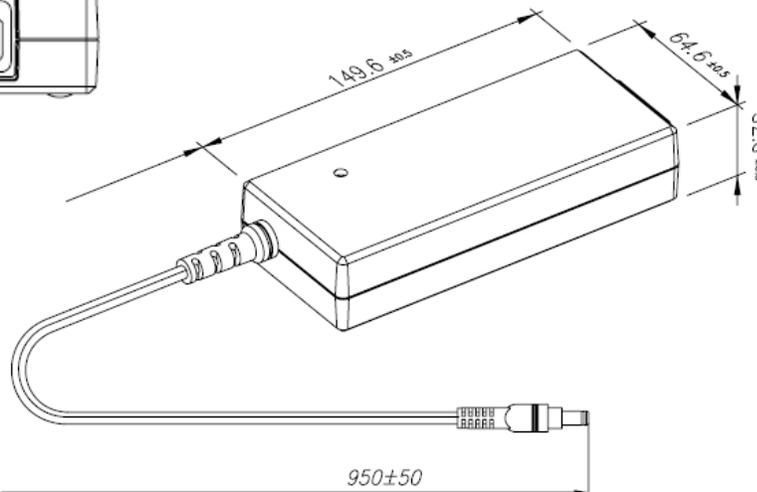
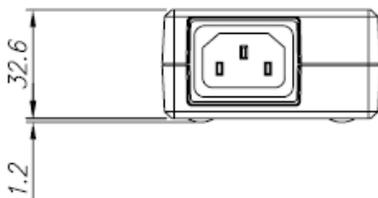
IEC320
C14
Grounded
(F)

Output Connector



- Notes:
1. Ault #3 Connector, center contact (+).
 2. Connector is Switchcraft 760 plug or equivalent. Mating connector is Switchcraft 712A or equivalent.
 3. Other connector options are available. Contact your SL Power Representative for details.

Outline Drawing



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