

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. |

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Model Number Key

JBL745 2 06 500 00 03 F J

Model
Input Connector:
Output Connector:
Custom items
Charge Current
Charge Voltage
Battery Type
Product Family

"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 |

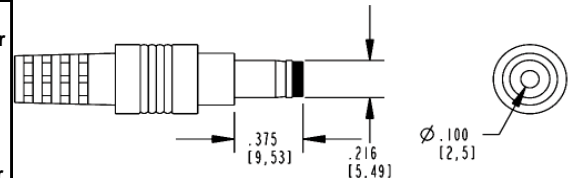
Input Receptacle

"F" = IEC320
C14
Class I -
Grounded



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

Output Connector



Outline Drawing

