CLI100-24
24V 100AH
Lithium Iron Phosphate Battery - LiFePO4

Physical Specification

Part Number: CLI100-24
Width: 522 ± 2 mm (20.55 inches)
Depth: 240 ± 2 mm (9.45 inches)
Container Height: 224 ± 2 mm (8.81 inches)
Approx Weight: 29.6kg (65.257lbs)

Specifications

Electrical Characteristics

- Nominal Voltage: 25.6V
- Nominal Capacity: 100AH
- Energy: 2560Wh
- Internal Resistance (AC): 20mΩ
- Cycle Life: 3000+ cycles @ 1C 100%DOD
- Monthly Self Discharge: Less than 3%
- Efficiency of Charge: 100% @0.5C
- Efficiency of Discharge: 96–99% @1C

Standard Charge

- Charge Voltage: 29.2±0.2V
- Charge Mode: 0.2C to 29.2V, then 29.2V, charge current to 0.02C (CC/CV)
- Charge Current: 60A
- Max. Charge Current: 120A
- Charge Cut-off Voltage: 29.2V±0.2V

Standard Discharge

- Continuous Current: 120A
- Max. Pulse Current: 140A (Less than 3s)
- Discharge Cut-off Voltage: 20V

Environmental

- Charge Temperature: 0°C to 55°C (32°F to 131°F) @ 60±25% Relative Humidity
- Discharge Temperature: -20°C to 60°C (-4°F to 140°F) @ 60±25% Relative Humidity
- Storage Temperature: -20°C to 45°C (-4°F to 113°F) @ 60±25% Relative Humidity
- IP Class: IP65

Dimensions

M8 Terminal

Model: CLI100-24
Capacity: 100Ah
Voltage: 25.6V
Energy: 2560Wh

To ensure safe and efficient operation always refer to the latest edition of our datasheets, as published on our website www.canbat.com. Canbat Technologies Inc. All rights reserved. All trademarks are the property of their respective owners. All data subject to change without notice. E&O.E
**LI100-24**

24V 100AH
Lithium Iron Phosphate

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**Different Rate Discharge Curve (25°C)**

- **Voltage (V)**: 18.4 to 28.0
- **Discharge Time**: 0 to 10h

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**Different Temperature Discharge Curve (0.5C)**

- **Voltage (V)**: 18.0 to 27.0
- **Capacity (%):** 0 to 100

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**State of Charge Curve (0.5C, 25°C)**

- **Voltage (V)**: 20 to 30
- **Charging Time (Minutes)**: 0 to 150

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**Charging Characteristics (0.5C, 25°C)**

- **Voltage (V)**: 20 to 30
- **Charging Current (A)**: 0 to 20

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**Different DOD Discharge Cycle Life Curve**

- **Remaining Capacity (%):** 60 to 100
- **Number of Cycles**: 0 to 9000

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**Different Temperature Self Discharge Curve**

- **Remaining Capacity (%):** 60 to 100
- **Storage Time (Months)**: 0 to 12

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**Features of Lithium Iron Phosphate LiFePO₄ Batteries**

- **MINIMAL SELF-DISCHARGE**
  Less than 2% self-discharge per month, which means more power when you need it.

- **FASTER CHARGING**
  Charges much faster than convential sealed lead-acid batteries, giving you access to reliable power quicker.

- **EASY INSTALLATION**
  Canbat lithium iron phosphate batteries are designed to be drop-in replacement for sealed lead-acid batteries.

- **HIGH DISCHARGE RATE**
  Ability to deeply discharge the battery at a high rate of discharge while maintaining a high energy capacity.

- **ENVIRONMENTALLY FRIENDLY**
  Toxic-free and acid-free, which makes them environmentally friendly and you can install them in any direction.

- **MORE USABLE CAPACITY**
  Lithium iron phosphate batteries provide up to 100% of usable energy, which means you can discharge the battery entirely.

- **LIGHT WEIGHT**
  Lithium batteries are 60% lighter than sealed lead acid batteries, making installing and moving the batteries easier and faster.