**CLI50-24**

**24V 50AH**

Lithium Iron Phosphate Battery - LiFePO4

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### Physical Specification

<table>
<thead>
<tr>
<th>Part Number</th>
<th>CLI50-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width:</td>
<td>330 ± 2 mm (13.00 inches)</td>
</tr>
<tr>
<td>Depth:</td>
<td>170 ± 2 mm (6.69 inches)</td>
</tr>
<tr>
<td>Container Height:</td>
<td>214 ± 2 mm (8.42 inches)</td>
</tr>
<tr>
<td>Approx Weight:</td>
<td>15.00kg (33.069lbs)</td>
</tr>
</tbody>
</table>

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### Specifications

#### Electrical Characteristics

- **Nominal Voltage**: 25.6V
- **Nominal Capacity**: 50AH
- **Energy**: 1280Wh
- **Internal Resistance (AC)**: 50mΩ
- **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**: 10A
- **Max. Charge Current**: 30A
- **Charge Cut-off Voltage**: 29.2V±0.2V

#### Standard Discharge

- **Continuous Current**: 30A
- **Max. Pulse Current**: 50A (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) @ 80±25% Relative Humidity
- **Storage Temperature**: -20°C to 45°C (-4°F to 113°F) @ 60±25% Relative Humidity
- **IP Class**: IP65

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### Dimensions

**M6 Terminal**

- **Width**: 330 ± 2
- **Depth**: 170 ± 2
- **Height**: 214 ± 2

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Lithium Iron Phosphate

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

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

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

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

**Different DOD Discharge Cycle Life Curve**

**Different Temperature Self Discharge Curve**

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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 conventional 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.

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