CLI55-12
12V 55AH
Lithium Iron Phosphate Battery - LiFePO4

Physical Specification

<table>
<thead>
<tr>
<th>Part Number</th>
<th>CLI55-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>229 ± 2 mm (9.024 inches)</td>
</tr>
<tr>
<td>Depth</td>
<td>138 ± 2 mm (5.43 inches)</td>
</tr>
<tr>
<td>Container Height</td>
<td>211 ± 2 mm (8.31 inches)</td>
</tr>
<tr>
<td>Approx Weight</td>
<td>7.60 kgs (16.76 lbs)</td>
</tr>
</tbody>
</table>

Specifications

**Electrical Characteristics**
- Nominal Voltage: 12.8V
- Nominal Capacity: 55AH @ 0.2C
- Energy: 704Wh
- Internal Resistance (AC): 20mΩ
- Cycle Life: 2500+ 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: 14.6±0.2V
- Charge Mode: 0.2C to 14.6V, then 14.6V, charge current to 0.02C (CC/CV)
- Charge Current: 28A
- Max. Charge Current: 55A
- Charge Cut-off Voltage: 14.6V±0.2V

**Standard Discharge**
- Continuous Current: 80A
- Max. Pulse Current: 100A (Less than 3s)
- Discharge Cut-off Voltage: 8V

**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**

- **M6 Terminal**
- Width: 229 ± 2
- Depth: 138 ± 2
- Height: 211 ± 2
- Container Height: 211 ± 2

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CL55-12
12V 55AH
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

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.

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