### Specifications

#### Electrical Characteristics
- **Nominal Voltage**: 12.8V
- **Nominal Capacity**: 50AH @ 0.2C
- **Energy**: 640Wh
- **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**: 25A
- **Max. Charge Current**: 50A
- **Charge Cut-off Voltage**: 14.6±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
- **IP Class**: IP65

### Dimensions

- **M6 Terminal**

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**Model**: CLI50-12  
**Capacity**: 50Ah  
**Voltage**: 12.8V  
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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.

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