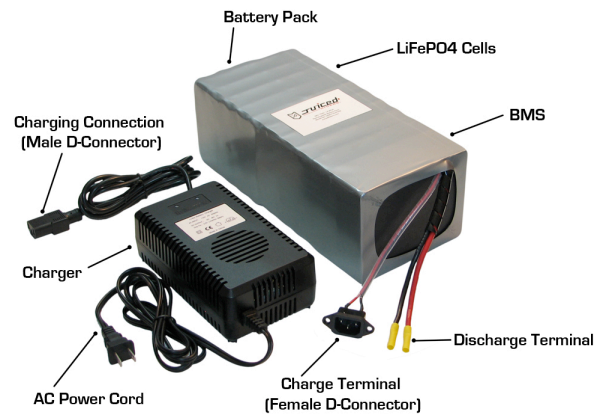




## 48V 15Ah LiFePO4 Rechargeable Battery Pack Model: 048015LIF002



### Documentation

Please carefully read this documentation *before* operating the battery pack. Battery Pack ships in a partially charged state. Fully charge pack before first use.

### Instructions

1. Switch off any device connected to the battery pack's discharge terminal.
2. Plug in the charger (WL-089-02) to AC 110V 50/60Hz electrical outlet. The red power status LED will illuminate indicating AC power is supplied to the charging unit.
3. Connect the charger to the battery pack. The D-connector will only fit in one direction. The red LED will flash indicating charging has started and the cooling fan will activate. A steady green light will indicate charging is complete. Charging will stop automatically when the battery becomes fully charged.
4. Disconnect the charger from the battery. It is ready to be used.

### Normal Operation

Charge duration will depend on the initial discharge state of the battery pack. Charging can be started at any discharge condition. This will not reduce the lifespan of the pack. It is not necessary to fully discharge the battery pack before starting the charge process. It is not necessary to fully charge the battery after the initial use. The charging process can be interrupted at any point. The charger and battery pack may become warm when charging or discharging.

For the protection and longevity of the cells, the on-board BMS will shut down the battery pack in event of over-discharge current, low-voltage, over-voltage or over-temperature. The pack must be disconnected from discharge source and reconnected to resume operation. Do not discharge the battery pack while the battery is charging. Do not discharge battery from Charge Terminal.

### Storage and Disposal

- Charge the battery pack fully before storing for long periods of time.
- Store battery pack in a cool dry place.
- Follow local regulations regarding battery disposal or recycling.

**48V 15Ah LiFePO4 Rechargeable Battery Pack / Model: 048015LIF002****Warranty**

Two-year Warranty is limited to manufacture defects in material and workmanship. This Warranty does not cover accidental or personal property, damage due to abuse, incorrect charging and other misuse of this product.

**Warnings and Safety**

Failure to follow the precautions listed below may damage the battery pack and/or charger, create safety hazard, cause bodily harm and void the Warranty.

- Do not disassemble the battery pack.
- Use caution when re-wiring the Charge/Discharge Terminals.
- Do not subject the battery pack to moisture or rain.
- Do not short positive and negative terminals.
- Do not reverse the polarity when connected to discharge source.
- Do not expose battery pack to flame or other high heat sources.
- Do not expose the battery pack to harsh chemicals.
- Do not drop or subject battery pack to heavy shock.
- Do not subject the battery pack to strong static and strong magnetic fields.
- Use only WL-089-02 charger.
- Do not plug in an AC-powered D-connector cable directly into the battery back.
- Do not plug the charger's Male D-connector cable into an AC powered Electrical Device.
- Do not charge the battery unattended.
- Do not discharge battery from charge terminal.
- Do not discharge the battery while the battery is charging.
- Keep the battery away from children and animals.
- Discontinue the use of the device if the battery experiences punctures, vehicle crash damage, leakage, burns, extreme heat discharge, smoke, abnormal odors, discoloration or unconventional charge or discharge circumstances.

**Specifications**

- Standard Capacity: 15Ah
- Rated Voltage: 48V
- Max. Charge Voltage: 58.4V
- Cut-off Voltage: 32V
- Max. Charge current: 15A 1C
- Max. Constant Discharge Current: 75A 5C (BMS limit 45A)
- Impedance: ( Max, at 1000Hz. )  $\leq 30 \text{ m}\Omega$
- Cycle Life: 0.2C to 85% of Original 2000 Cycles
- Length: 310mm
- Width: 150mm
- Height: 110mm
- Weight: 7.5kg
- Operation Temperature: (Charge) 0°C ~ 45°C
- Operation Temperature: (Discharge) -20°C ~ 60°C

**Contacts**

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