

BATTERY CHARGER

Please read this manual carefully before use!

A. Features:

- 1) Advanced high frequency switching mode power supply technology.
- 2) DC output isolated from AC input.
- 3) Charging parameters are insensitive to the AC input line voltage variations.
- 4) 2 LEDs: LED1 Red (power on), LED2 Red/green (charging/full).
- 5) Short circuit, over voltage, over-temperature, reverse polarity protections.
- 6) Efficiency >91%.
- 7) Forced ventilation with fans.
- 8) 100% full loading aging test.
- 9) Bluetooth version (BLE). WIFI band (2.4G). After the wifi link, app remote view.

B. Operations:

- 1) Check if your local mains supply conforms to charger's input voltage 110V.
Then connect the charger system to a wall socket. If charger has switch with OFF position, it MUST be set to ON.

LED1 RED confirms AC power on, and the LED2 GREEN confirms charger connects well.

- 2) Please attention to DC terminal:

Brown (Red)→Positive + terminal, Blue (Black)→Negative - terminal.

Then Connect the plug or the DC Output cord to battery terminals.

LED2 RED confirms charger is charging, LED2 GREEN confirms battery fully charged.

C. Attentions:

- 1) The phenomenon of Sparking is normal when it connects to battery because of high current.
- 2) Make sure that the charger type matches the battery type before charging. Avoid charging the wrong type of battery.
- 3) Always place the charger in well-ventilated and dry environments. Do not cover it to avoid the case from being over heated while charging.
- 4) Dust-proof should also be taken into consideration to avoid influencing heat dissipation effect because of surface dust accumulation.
- 5) In view of safety and electromagnetic compatibility, the charger equipped with grounding wire by default.
- 6) Do not attempt to repair or service the charger yourself, open the cover of charger casually may result in electric shock hazard or other damages. Take it to a qualified service person when service or repair is required.
- 7) Batteries produce hydrogen gas, which can explode if ignited, never smoke, use an open flame, or create sparks near the battery. Proper ventilation is required when charging.
- 8) Risk of electrical shock. DO NOT touch uninsulated portion of AC or DC connectors or the uninsulated battery terminal.
- 9) If the battery is found to be abnormal or damaged during working process, please drop the

power adapter and connector immediately.

10) In order to avoid charger wiring harness damage, please do not put the matters onto charger wiring harness or the places easy to be stamped, if there is damage of wiring harness, please change immediately.

D. Common Faults and Solutions:

- 1) Error input voltage: Check if the input voltage conformed to the requirement or not.
- 2) Abnormal AC input: Check whether there is AC voltage and whether the input plug is loose.
- 3) Machine over heat: Check that the fan is running. Also pay attention to ventilation at the working place of charger, covering anything on the charger is not allowed.
- 4) Output short circuit: Check the wire line of output terminal to exclude short-circuit.
- 5) No battery or reverse connection: Check the battery connection, connect the battery correctly.
- 6) Battery voltage is too low: Make battery voltage up to the starting voltage of charger.

E. Storage:

Products should be stored in package box when it is not used. And warehouse temperature should be $-40\sim 70^{\circ}$ C, and relative humidity is 5-95%. In the warehouse, there should not be harmful gas, inflammable, explosive products, and corrosive chemical products, and strong mechanical vibration, shock and strong magnetic field affection. The package box should be above ground at least 20 cm height, and 50 cm away from wall, thermal source, and vent.

Under this requirement, product has 2 years of storage period, and should be rechecked when over 2 years. The charger must be energized every three months for not less than 0.5 hours.

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.