

# USER MANUAL



**Before using battery charger, read all instructions and cautionary markings.**

## **IMPORTANT SAFETY INSTRUCTIONS – SAVE THESE INSTRUCTIONS**

### **DANGER – TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS**

1. Don't be exposed to the rain.
2. The plug is used as disconnect device. The socket-outlet shall be installed near the equipment and shall be easily accessible.
3. Children should be supervised to ensure that they do not play with the appliance.
4. The maximum charging voltage and maximum charging current of this product are indicated on the product nameplate. The battery pack model corresponding to the maximum charging voltage, as shown in Table 1/ Table 2, should be used according to the corresponding battery pack in Table 1/ Table 2, otherwise the battery pack may burst, causing personal injury and damage.

## **Environmental conditions:**

Altitude up to 2000m; Temperature -10-40 °C; Altitude up to 2000m; Over temperature protection: 85°C

**Input Voltage:** 100-240V 47-63HZ;

**Input current:** 120VAC (2A YZ100XXXXYYYY), (3A YZ270XXXXYYYY)MAX

**Input current:** 220VAC (1.5A YZ100XXXXYYYY), (2.0A YZ270XXXXYYYY) MAX

## **Instructions for use:**

**1.Note:** Check the type of battery pack: whether it is the battery type listed in Table 1/ Table 2, check the charger output voltage required for the corresponding battery pack, for example, for 36V lithium-ion battery, the corresponding required charger voltage is 42v. For 36V GLE/ AGM /Lead battery, the corresponding required charger voltage is 43.5v. (If not, please stop using the charger.)

**2. Steps:** First, connect the charger connector to the charging side of the battery (make sure the electrodes of the original charger and this charger must be the same, for the electrodes, please check the picture on the order details page). Second, connect the input plug to the AC power outlet. Again, turn on the AC power outlet switch, the charger LED lights up, the charger works normally.

### **LED Indicator:**

1. Connect to AC power without battery: green;
2. Charging: red and green LED will light up alternately;
3. Battery is full: charger LED turns from red and green alternately to green.

### **LED display:**

When charging, it shows the real-time charging voltage(instant charging voltage > battery pack voltage).

When fully charged, displays fully charged battery voltage.

When the charger is not connected to the battery, the maximum charging voltage is displayed.

### **If the charger does not charge the battery properly, you can troubleshoot the problem as follows:**

1. Please connect the charger to the AC power supply correctly. Without connecting the battery, the LED display of the charger does not have any value, which means the charger is damaged. If the LED display shows the charger output voltage, it means the charger is intact.
2. If the charger is connected to AC power and battery pack at the same time, the charger shows the real-time voltage of the battery pack, if the display is on - off - on - off, it means that the battery pack has been damaged or the charging connector is not properly wired, it is recommended that the battery pack be taken to a professional repair point for testing and repair.
3. The charger shows maximum charging voltage and no charging: check whether the charging plug of the charger is correctly connected to the battery pack connector; check whether the battery pack is damaged.
4. If the charger is damaged, please contact the seller for replacement. Do not replace the wires or internal components to avoid danger.

Apply Battery information listed as below:

Table 1.     YZ270XXXXYYYY		
Charger output	Battery type voltage	Battery capacity
14.5V 10A	12V GLE/ AGM /Lead battery 1S*12V	30AH-100AH
14.6V 10A	12.8V LifePo4 battery 4S*3.2V	20AH-100AH
29.2V 5A / 29.2V 7A	25.6V LifePo4 battery 8s*3.2V / 25.2V lithium battery 7S*3.6V	15AH-70AH / 15AH-70AH
43.5V 5A	36V GLE/ AGM /Lead battery 3S*12V	15AH-50AH
42.0V 5A	36V lithium battery 10S*3.6V	15AH-50AH
54.6V 4A	48V lithium battery 13S*3.7V	15AH-40AH
58V 4A	48V GLE/ AGM /Lead battery 4S*12V	15AH-40AH
58.4V 4A	51.2V LifePo4 battery 16S*3.2V	15AH-40AH
58.8V 4A	50.4V lithium battery 14S*3.6V	15AH-40AH
67.2V 3A	57.2V   lithium battery 16S*3.6V	10AH-30AH
72.5V 3A	60V GLE/ AGM /Lead battery 5S*12V	15AH-30AH

Table 2.     YZ100XXXXYYYY		
Charger output	Battery type voltage	Battery capacity
14.5V 8A	12V GLE/ AGM /Lead battery 1S*12V	24AH-80AH
14.6V 8A	12.8V LifePo4 battery 4s*3.2V	15AH-80AH
29.0V 4A	24V GLE/ AGM /Lead battery 2S*12V	12AH-40AH
29.2V 2A / 29.2V 4A	25.6V LifePo4 battery 8s*3.2V / 25.2V lithium battery 7S*3.6V	6AH-20AH / 10AH-40AH
29.4V4A	25.2V lithium battery 7S*3.6V	8AH-40AH
43.5V 3A	36V GLE/ AGM /Lead battery 3S*12V	9AH-30AH
42.0V 2A	36V lithium battery 10S*3.6V	9AH-20AH
42.0V 3A	36V lithium battery 10S*3.6V	9AH-30AH
54.6V 2A	48V lithium battery 13S*3.7V	6AH-20AH
58V 2A	48V GLE/ AGM /Lead battery 4S*12V	6AH-20AH
58.4V 2A	51.2V LifePo4 battery 16s*3.2V	6AH-20AH
58.8V 2A	50.4V lithium battery 14S*3.6V	6AH-20AH



for indoor use only



positive polarity

— negative polarity

**BFP**

Battery Charger Backfeed Protctrion



Direct current