

# **HT-BAT**

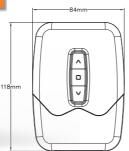
### Backup Power Controller User Manual

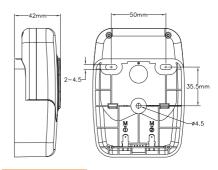
#### 1. 1 Product Description

- HT-BAT is a controller designed for DC12V tubular motors (mechanical limit switch version), integrating a 433.4MHz wireless receiver and a 2600mAh lithium battery module. It provides an easy and intelligent power control solution for various door and window applications.
- The HT-BAT controller adopts a split quick-plug design, enabling flexible separation of the main unit and the base via its plug-and-socket structure. The detached main unit (without the base) can be charged independently, providing users with versatile charging options for diverse scenarios.
- Externally pluggable automotive-grade fuse ensures zero power consumption during storage and transportation, safeguarding the controller's energy efficiency.
- Externally pluggable automotive-grade fuse, features with overload self-fusing to protect the electronic control system and battery pack from electrical hazards.

#### 1.2 Product Overview







Version: V1. 2

Finished Product

**Product Dimensions** 

# 1.3 Technical Specifications

Model	Battery	Full Charge	Standby	Receiver	Output	Operating
	Capacity	Voltage	Power	Frequency	Current	Temperature
HT-BAT	2600mAh	14.4V	≤200uA	433.92Mhz	8A (MAX)	-40°C∼65°C

#### 1.4 Precautions

- Strictly adhere to safety guidelines for lithium battery storage, transportation, and recycling;
- Use only a dedicated lithium battery charger (16. 8V/1A) for charging. Do not use other power sources;
- Do not charge continuously for more than 8 hours;
- Storage temperature: -40°C~45°C:
- If the device is not used for more than 3 months, recharge it fully and discharge it to 12V~13. 2V
  (optimal storage voltage) by connecting it to a motor. Avoid long-term storage without charging;





### 2.1 Charging Preparation Before Use

Note: To ensure battery safety during transportation and storage and reduce standby power consumption, the main unit and battery are disconnected(without the fuse inserted)as the default factory setting.





- Insert the fuse into the slot on the back of the controller;
- 2.Connect the dedicated charger to the charging port of the controller until the green light stays on, indicating full charge. Then unplug the charger;

# 2.2 Connecting the Controller to the Motor

- Connect the two power wires of the DC motor to the terminal tabs on the back of the controller securely:
- Press the up/down buttons on the controller. If the motor moves in the opposite direction of the door/window operation, manually swap the motor wires on the controller terminals or follow Section 4.5 to reverse the controller's program direction;
- For DC motors with mechanical limit switch, refer to the DC motor manual for limit adjustments and precaution;

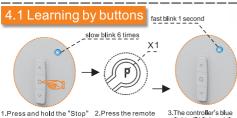


#### Smart LED Indicators

LED1	Red light on	Charging in progress	
	Green light on	Fully charged	
	Red light slow blink(4 times)	Low battery reminder (charge promptly)	
	Red light fast blink(4 s)	Low battery protection (power output terminated)	
LED2	Blue light blink (1 time)	Control command received	



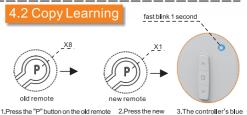
Note: If LED1 shows a slow red blink during motor operation, charge the controller immediately. When the red light blinks rapidly, the controller will cut off power to the motor, rendering the door/ window unable to open or close until the controller is fully charged or the fault is resolved



button for 5 seconds until the blue light turns off control's "P" button completely.

light will blink rapidly for 1 second, indicating successful learning.

fast blink 1 second

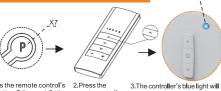


control 8 times. The controller's blue light will blink rapidly and then turn off. 2.Press the new remote control's "P" button once.

3.The controller's blue light will blink rapidly for 1 second, indicating successful pairing.

fast blink 2 second

### Delete the current remote



1.Press the remote control's "P" hutton 7 times while the controller's blue light blinks 7 times.

remote control's "Up" button once.

blink rapidly for 1 second, indicating the current remote operating is deleted successfully.

### elete all code(reset



1.Press the remote control's "P" button 7 times while the controller's blue light blinks 7 times.

2.Press the remote control's "Down

3. The controller's blue light will blink rapidly for 2 seconds. indicating all remotes learned with the receiver are deleted successully.

# Direction change



1.Press the remote control's "P" button 4 times while the controller's blue light blinks 4times.

2.Press the remote control's "Down"

3. The controller's blue light will blink rapidly for 1 second, indicating successful direction

#### 4.6 Wiring Direction Reversal



To reverse the motor direction, swap the connection of the power supply's quick-connect terminals with the controller's tab terminals.