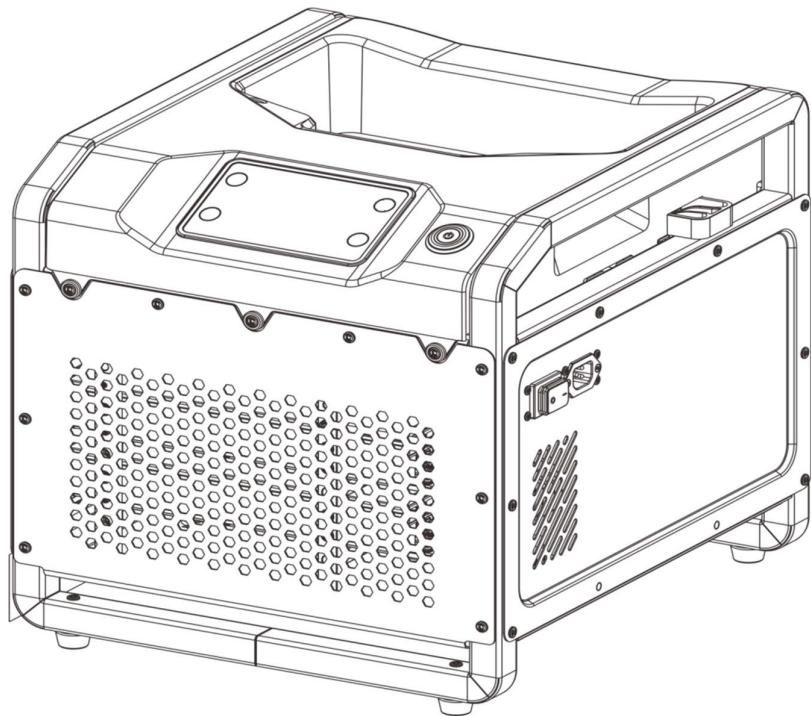


## HE202 Smart Charger User Manual



Société par Actions à Responsabilité Limitée de

Technologie Huida du Heilongjiang

12-2024

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## 1 Product Overview

HE202 all-around charger is a new generation of self-developed battery charger by Huida Technology. Upgraded high-power charging module, the charging speed is faster and more stable than the previous generation products. Quick insertion and removal design makes battery insertion and removal more convenient and charging safer. Integrated battery heat sink, can cool while charging, or can be used as a separate battery heat sink. HE202 can be compatible with intelligent battery charging for third-generation agricultural drones.

## 2 Disclaimers

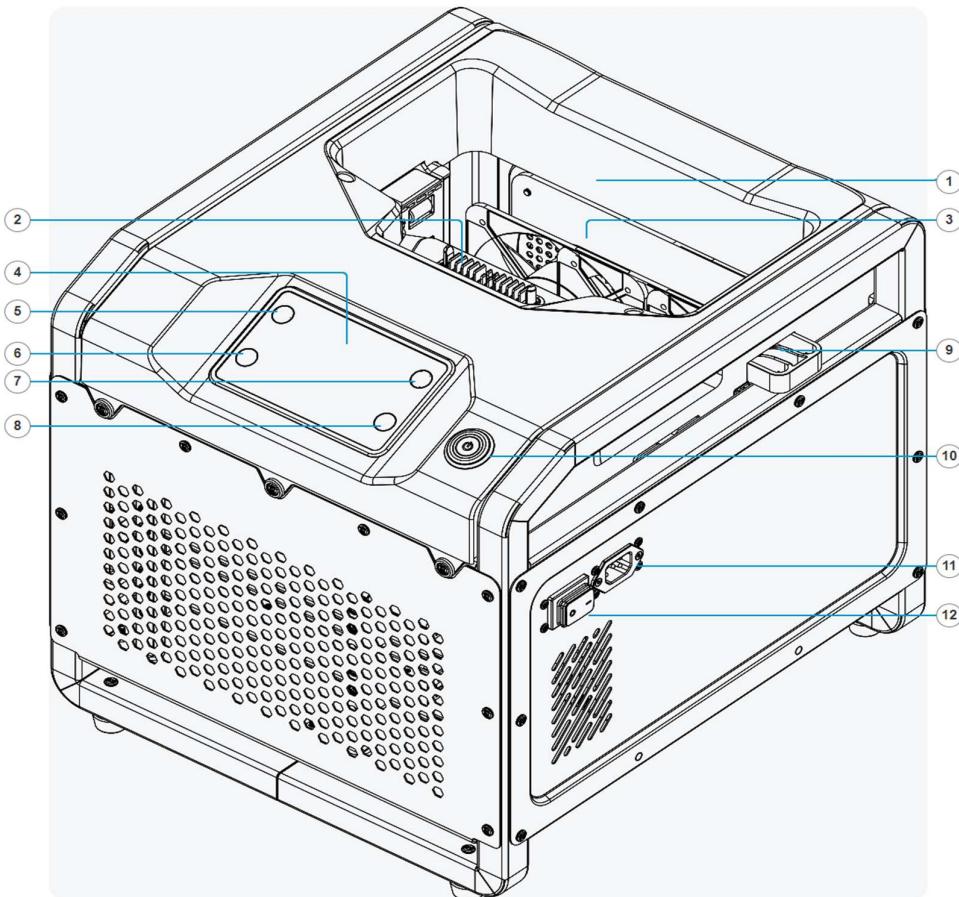
Thank you for purchasing the Huida Agricultural Unmanned Aircraft Special Universal Charger HE202. Before using this product, please carefully read and follow the relevant safety electricity regulations in this article, otherwise it may cause injury to you and others around you, damage this product or other surrounding items. Once you use this product, you are deemed to have carefully read this document, understood, recognized, and accepted all terms and contents of this document and all related documents of this product.

You promise to use this product only for legitimate needs.

You promise to take full responsibility for the use of this product and any possible consequences. Huida Technology is not responsible for any damage, injury, or legal liability caused by the direct or indirect use of this product.

The final interpretation rights of this document and all related documents of this product belong to Heilongjiang Huida Technology.

### 3 Charger composition



① Battery compartment	② battery charging connector
③ Cooling fan	④ LCD function panel
⑤ Power increase button	⑥ Power decrease button
⑦ Pause/Continue button	⑧ Debugging button
⑨ Battery tray	⑩ charging switch button
⑪ Power connector æ	⑫ Cooling fan switch

### 4 Precautions before use

- 1) Please carefully read the HE202 user manual before use. Failure to follow the relevant instructions may result in property damage, personal injury, and even life safety issues. The warnings and preventive measures in this manual cannot cover all possible situations. Users must understand the product knowledge not mentioned in this manual and maintain a cautious operating attitude.

- 2) Only personnel with a valid electrician certificate are allowed to perform three-phase electrical wiring operations, and insulated gloves must be worn during wiring.
- 3) It is strictly prohibited to use this product in direct sunlight, lightning, thunderstorms, or humid environments.
- 4) It is necessary to use the HE202 universal charger at a suitable ambient temperature (recommended to be between -10 °C and 40 °C).
- 5) This product should be kept away from hazardous materials such as heat sources, high pressure, water, flammable gases, and corrosive substances.
- 6) When charging, please keep away from flammable materials and do not place the charger or battery on the carpet for charging.
- 7) The product should be placed on a horizontal tabletop and should not be tilted or tilted. Adequate ventilation distance must be left at both ends of the ventilation holes (recommended>50 cm) to ensure good ventilation during product operation.
- 8) Please choose an open area for charging, and in case of an accident, personnel can be quickly evacuated.
- 9) In case of fire, please use dry powder fire extinguishers correctly to extinguish the fire. Using liquid fire extinguishers may pose a risk of electric shock.
- 10) Do not unplug the battery or the charging input harness during the charging process. After charging is completed, please unplug the battery in a timely manner.
- 11) If there are foreign objects at the charger and battery connectors, please clean them in a timely manner. Before cleaning, make sure that the smart charger is not connected to an external power source.
- 12) The cooling fan needs to be regularly disassembled and cleaned to prevent dust accumulation

from affecting heat dissipation. The specific cleaning cycle should refer to the local environment.

- 13) The HE202 all-around charger can be activated and firmware upgraded through the 540S agricultural drone remote control. Before activating and upgrading the smart charger by connecting the remote control, please ensure that the remote control firmware has been upgraded to the latest version.
- 14) the appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- 15) Children should be supervised to ensure that they do not play with the appliance

## 5 Operation method

### 1) activation

HE202 needs to be activated before use.

When the charger is first powered on, the LCD panel of the charger will prompt you to activate the device. At this time, connect to the drone remote control and follow the prompts to complete the charger activation.

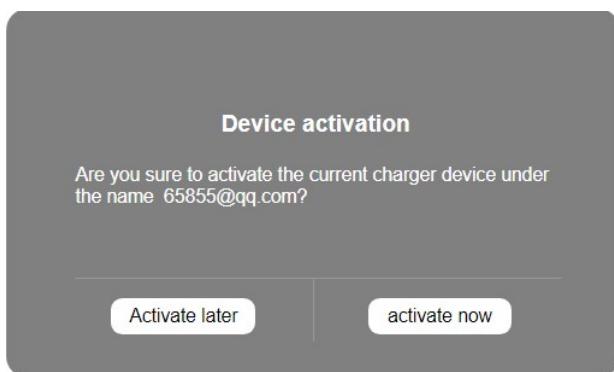
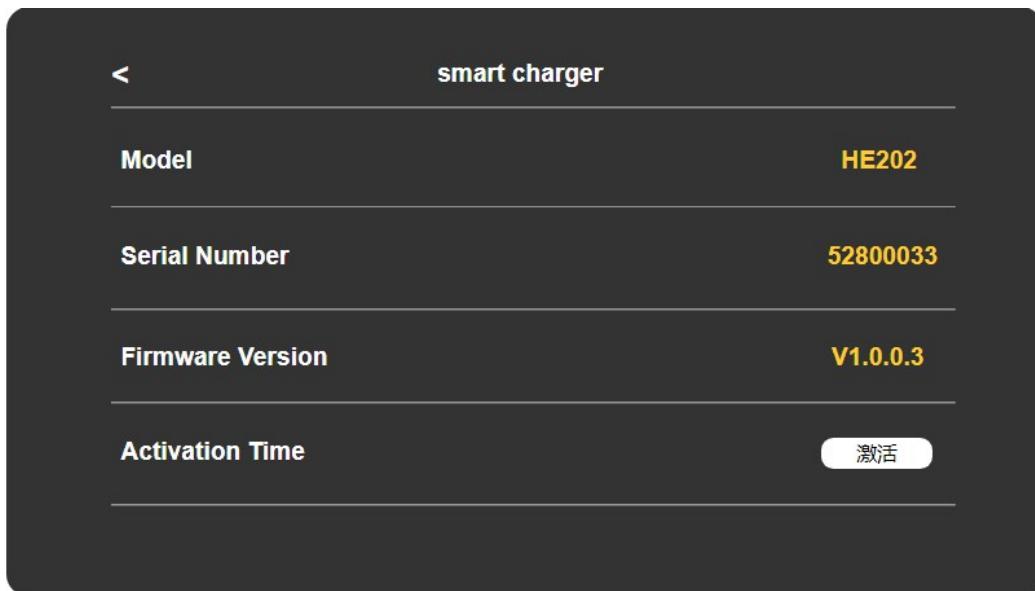
Note: Direct use without charging will affect the warranty rights of the charger. Please activate the charger as soon as possible before using it.

VER:V1.0.0.3 SN:52800033

#### Please activate the device according to the prompts

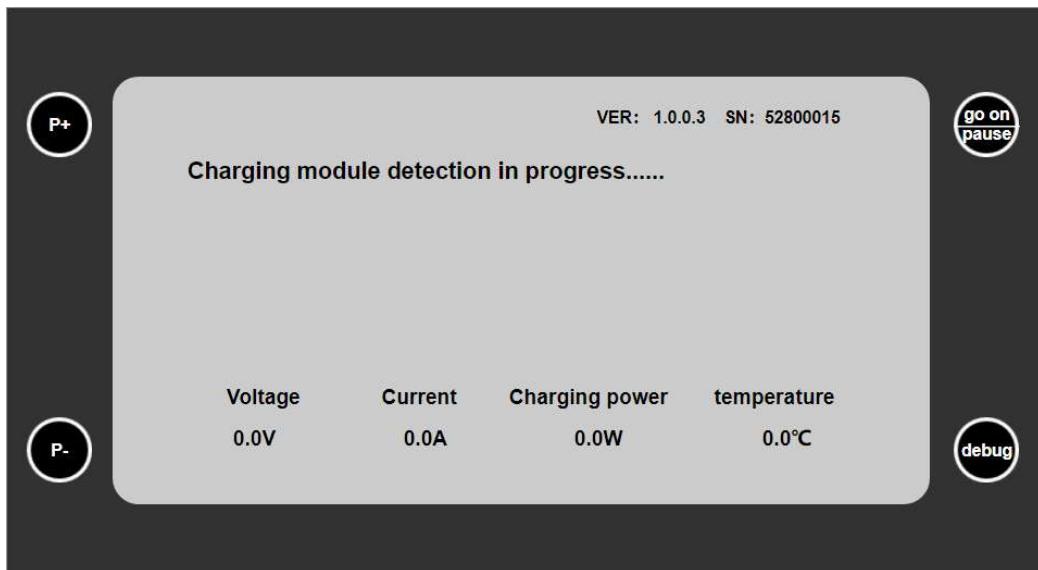
1. Please use WIFI to connect the remote control device
2. Find the device with the number 52800XXX in the WIFI list of the remote control and click to connect
3. Remote Control APP - Device Management - Peripherals - Charger, click "Activate"

#### Activation steps after connecting to the remote control app



## 2) How to charge

Connect the charger, insert the battery to be charged, and turn on the charging switch. At this point, the charger will first check the type of power harness, then check the charging module, and finally check the battery status. If all tests are normal, the charger will start charging.



### Precautions during charging

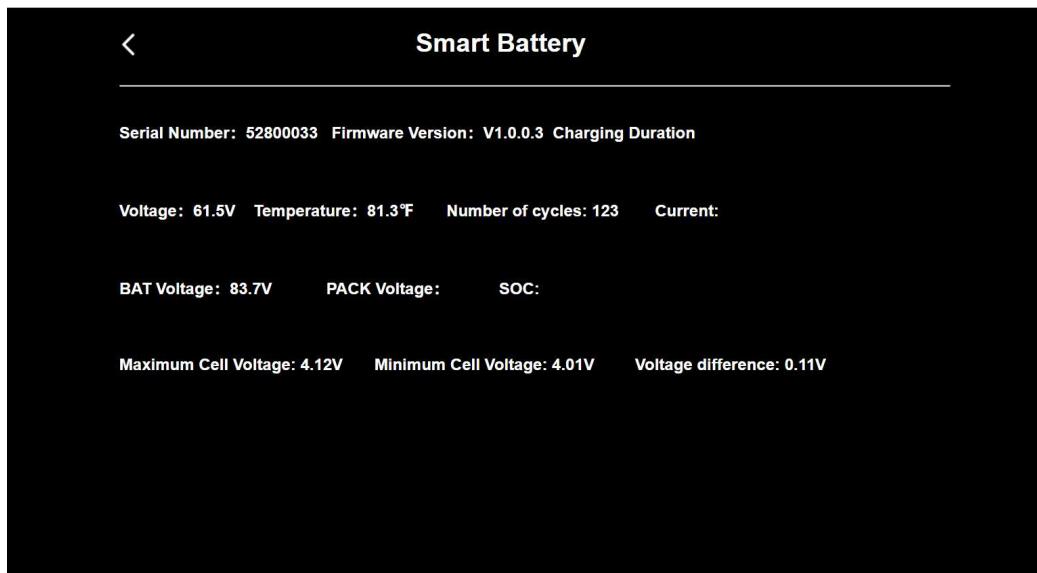
During the charging process, the charging power can be adjusted based on "power+" and "power -"

Press the "Continue/Pause" button to pause charging, press again to continue charging

Press the "Debugging" button, and the charger will enter the tuning interface

Attention: It is strictly prohibited to directly unplug the battery during the charging process. You can pause or turn off the charging switch before unplugging the battery

### 3) View smart battery information



## 6 Parameter

**Dimensions:** 416 length \* 390 width \* 391mm height

**Input voltage:** 120Vac

**Rated frequency:** 50Hz, 60Hz (Range Frequency: 44-66MHz)

**Rated output power:** 1350W

**Rated output current:** 54Vdc/25A

**Communication frequency band:** Wi Fi 2.4G&5G (B1&4)&BT 4.2

**Net weight:** 18.3kg

## 7 Item List

Charger body \* 1

Home appliance plug harness \* 1

Connect the generator plug harness \* 1

Single plug wiring harness \* 1 (Optional)

Charger outer packaging \* 1

## 8 FCC Statement

This equipment has been tested and found to comply with the limits for a Class A 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.

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.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

### FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

### ISED Notice:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme à la norme RSS d'Industrie Canada. Son fonctionnement est sujet aux deux conditions suivantes:

(1) led dispositif ne doit pas produire de brouillage préjudiciable, et

(2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

#### ISED RF Radiation Exposure Statement

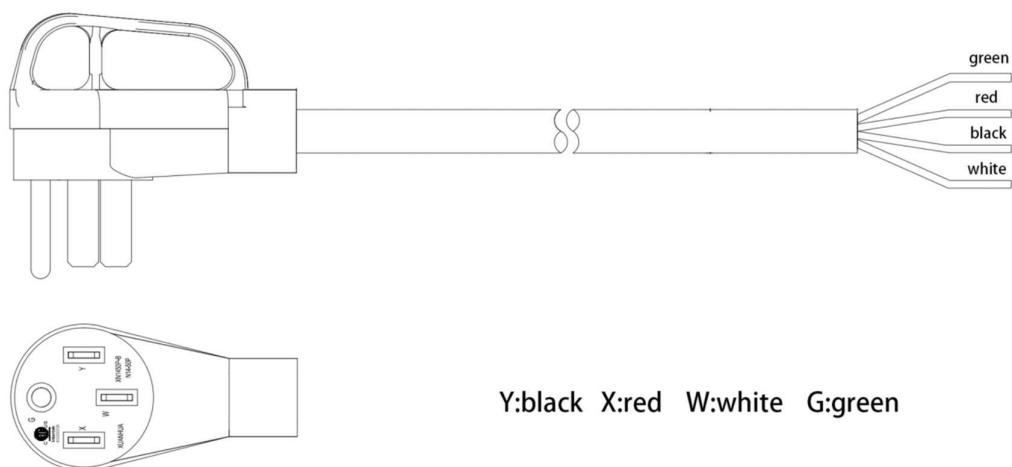
This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

Déclaration d' exposition aux radiations:

Cet équipement est conforme aux limites d' exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

## Wiring instructions for single plug harness (optional)

### 1 Definition and wiring method of wire harness



Terminal	Colour	Actual meaning	Wiring object
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marking			
X	red	Three phase power input terminal	380V Three phase live wire(L1/L2/L3)
Y	black		
W	white		
G	green	Equipment grounding terminal	Protect the ground wire(PE)

## 2 Wiring Procedure

### 1) Power Off and Voltage Verification

Disconnect the upstream circuit breaker and use a multimeter to confirm **zero voltage** between terminals X/Y/W.

### 2) Connect Three-Phase Live Wires

Securely crimp the three phase wires (L1/L2/L3) to terminals **X/Y/W**.

### 3) Grounding Protection

Connect the grounding conductor (PE) to the **G terminal**.

### 4) Power-On Test

After closing the circuit breaker:

Measure voltage between X-Y, Y-W, W-X  $\approx$  **380Vac**

Measure voltage between X-G, Y-G, W-G  $\approx$  **220Vac**

## 3 Key Precautions

### 1) Critical Warning

→ The G terminal **MUST NOT** be used as a neutral line (N).

### 2) Connection Security

Prevent **loose terminals or poor contacts** at all connection points.

### 3) Safety Compliance

Consult equipment suppliers or **certified electricians** if operational requirements are unclear.

**CAUTION:** Three-phase operations involve lethal voltages! **STRICTLY PROHIBITED** to wire without expertise!

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