

JM-C3-7000 intelligent charger

User manual v1.0



SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., LTD

To Users

Thank you for choosing JM-C3-7000 series fully intelligent chargers carefully developed and manufactured by SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., LTD(here in after referred to as "EAVision"). In order to familiarize you with the operation and maintenance of the device, please read and comply with the relevant requirements of this manual carefully. In the actual operation process, you should strictly operate in accordance with the requirements, and timely and carefully maintain the device in accordance with the requirements.

FCC Statement

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user' s authority to operate the 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/IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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Disclaimers

Please read this statement carefully before using this product. The use of this Product is deemed to be the approval and acceptance of the entire contents of this Statement.

This product is not suitable for people under 18 years old. Prior to using this product, please receive regular training from EAVision and obtain an unmanned aerial system operating license approved by EAVision . Keep this product away from children and be careful when operating in the presence of children.

In using the Products, users undertake to be responsible for their own actions and all consequences arising therefrom. Polar Technology shall not be liable for all losses arising from users' failure to use the Products in accordance with this document, and shall not be liable for any indirect, consequential, punitive, accidental, special or penal damages.

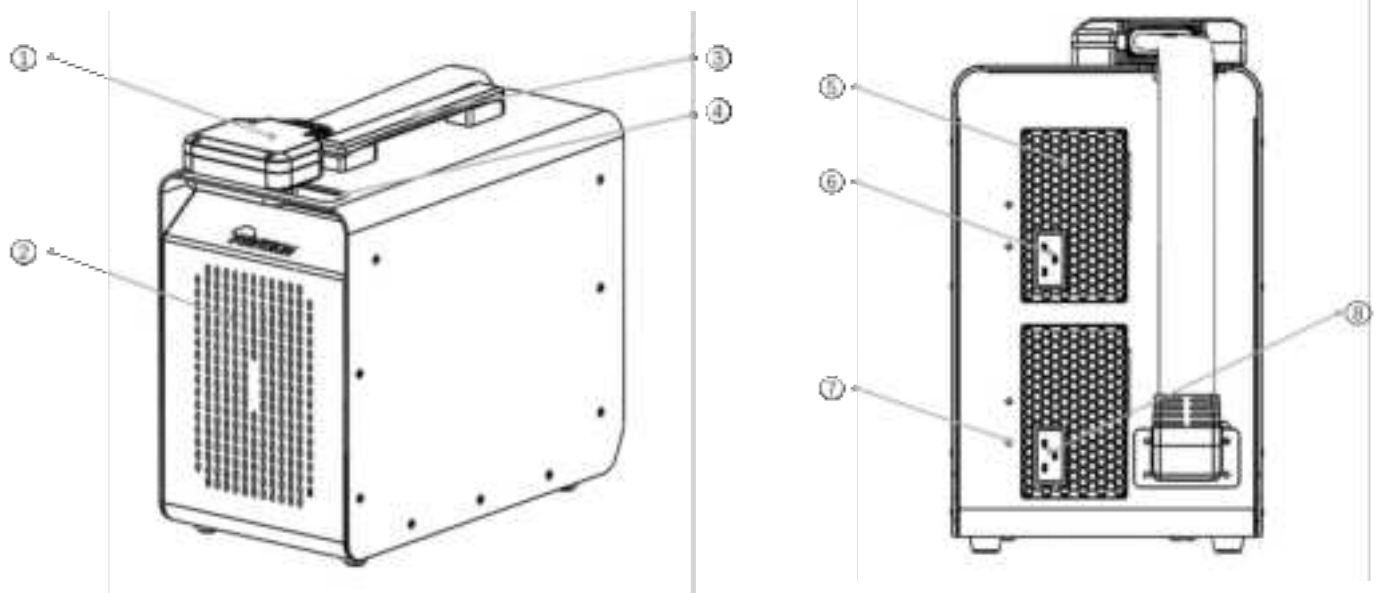
User undertakes to use the Product only for legitimate purposes and agrees to comply with the entire contents of this User Manual and any relevant policies or guidelines that EAVision may develop or modify. The User understands and accepts that the Product will automatically upload and save relevant flight records and data to the EAVision server during the use of the Product, and agrees that EAVision will legally collect, store and use all relevant data during the use of the Product. If the flight records and data cannot be uploaded and saved due to the user's reasons, EAVISION will not assume any responsibility for the flight records and data storage and analysis caused by EAVision.

Product overview

Introduction

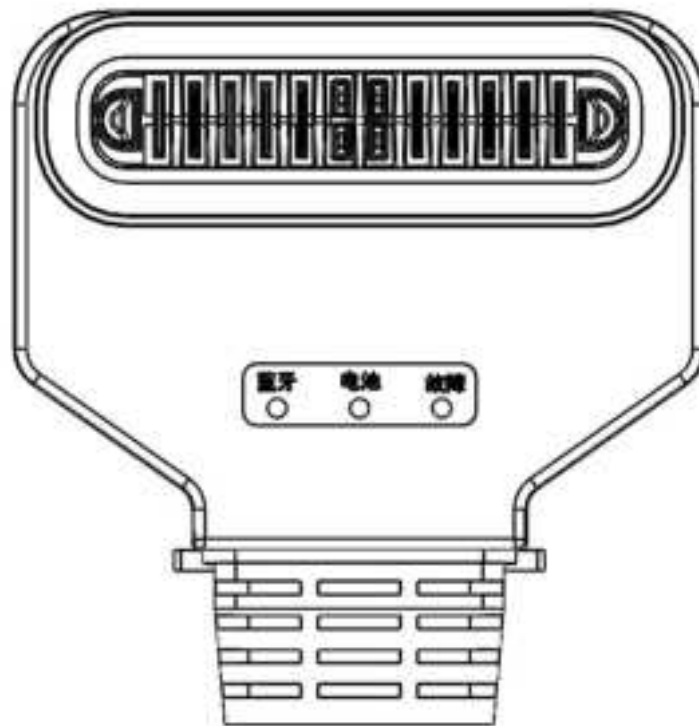
JM2-29000mAh intelligent battery is equipped with JM-C3-7000W intelligent charger, which can be filled with a battery in about 11 minutes. The conventional standard operation time of UAV is 10-12 minutes, and the operation time can cover the charging time, realizing "two battery and one charger, easy circulation". The maximum charging power of the charger is up to 7000W, and it can be connected to the charging management App through Bluetooth. Users can monitor the charger and battery cell status and other information through the App in real time. The intelligent charging management system can adjust the charging current according to the battery status. The charger has multiple intelligent protection, over temperature, over voltage, under voltage, short circuit, fan blocking and other protection functions to ensure charging safety.

Intelligent charger component



- | | |
|--|---|
| 1. charge controller | 5. Heat dissipation holes on the rear panel |
| 2. Heat dissipation holes on the front panel | 6. AC input |
| 3. Handle | 7. Ground wire interface |
| 4. Charge controller fixed bayonet | 8. AC input |

Charge controller



Battery status indicator

The LED corresponds to the charging status of the inserted channel battery

1. Blinking yellow: The battery is inserted;
2. Blinking green: The battery is being charged
3. Steady green: The battery is fully charged;

Bluetooth indicator light

The LED indicate Bluetooth connection

- 1.The blinking green light indicates the search status, and there is no link to the APP;
- 2.The steady green light indicates that the phone APP has been linked and can be used;

Fault indicating lamp

LED indicates the fault status

- 1.Blinking red indicates that the battery is faulty;

2.Steady red indicates that charging control module is faulty;



If the warning light is red, please stop charging immediately and check the alarm information of the APP. The charging can be continued only after the abnormality is eliminated and the red light is off.

Precautions for use

1. AC power input port and generator plug with high voltage ,do not touch.
- 2.Charger belongs to the product of large leakage current ,before the use of power,must connect the ground wire, to ensure reliable grounding.
3. When charging indoors, make sure use the 16A air conditioning port socket, and make sure the charging line is larger than 2.5m² national standard line; Do not use a 10A socket to transfer to a 16A socket.
4. Prohibit to use this product in lightning and thunderstorm weather.
4. During the charging process, a human need to guard, To ensure safe of charging ,keep the distance between the battery and the charger or the battery and the battery greater than 30cm.
5. When using this product ,please keep away from heat,high pressure,water and inflammable, explosive and corrosive dangerous goods.
6. The product should be placed on a horizontal table ,not titled, and must be left with enough ventilation distance (recommended to be more than 50cm away from the wall, heat source, windows air inlet) to ensure good ventilation when the product is working.
7. In case of fire, please use the dry chemical extinguisher correctly to extinguish the fire, The use of liquid extinguishers may cause the danger of electric shock.
8. Forbid to insert any non-EAV battery for charging ,Do not unplug the power cord during charging ,after charging, remove the battery in time.

9. Do not plug or remove the battery when it is charged, Otherwise, a charging fault will occur, if the yellow light of the battery controller is steady on. wait for about 10 minutes and the charging will return to normal, If you need to plug in and out, you can manually turn off the battery

The main input must meet the following requirement:

Parameter	Minimum	Typical	Maximum	Unit	Comments
Input voltage range	90	110/220	290	V	Input below AC 210V charger output maximum power will be reduced
Input frequency	45	50/60	65	Hz	Rated load
Input current			40	A	
Input impulse current			60	A	

Generator requirements are as follows:

Parameter	Minimum	Typical	Maximum	Unit	Comments
Input voltage range	210	220/230	290	V	Input below AC 210V charger output maximum power will be reduced
Input frequency	45	50/60	65	Hz	Rated load
Rated power		8.5KW		W	
Output maximum power			9K—10KW	W	

Usage of Charger

Check before use

appearance inspection

1. Check whether the charge controller and power input cable are damaged, that all cable is normal.
2. Check whether the charging controller pin is deformed
3. Check whether the generator power supply line and socket are damaged ,deformed, or blocked by foreign bodies

Check after power on

1. Check whether the fan works properly after it is connected to the power supply.
2. Check whether the fault of the charging controller is off, If the fault light is off, the self-check of the charger is normal.
3. Turn on the Bluetooth of the mobile phone, open the charging management APP, find the corresponding charger ID and connect it, and check the status of the charger.



Use

1. The charger must be well grounded when in use. Please use a grounding wire to ground the shell of the charger. Remove the screw of the grounding interface and fix the grounding wire, as shown in the figure below.

2. Connecting the charger to household electricity or a generator.

3. Insert the charging cable connector into the battery to start charging. The AC end of the charger is equipped with two power input sockets.

1) In a home environment, make sure that the socket and wiring power support 7000W. It is recommended to use a single plug. The charger will automatically determine and charge with a low power of 3000W to avoid the danger of overloading the home grid due to excessive current. Charging time is about 30 minutes.

2) For generators of 9000 watts or more, the charger will charge the battery with the power of 7000 watts when plugged into the input power socket. Charging time is about 11 minutes.

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- The charger interface can be connected to two household circuits at the same time, one household circuit and one generator, or two generators. When the two sockets are used at the same time, the charging power is superimposed, and make sure the power of the wires and sockets of household circuits are greater than 7000W.
 - Before connecting the charger, make sure various ports and input harnesses of the charger are not cracked, chipped, blocked, or misshapen.
 - Before charging, make sure the battery is not cracked, chipped, or misshapen, and the port is not blocked.
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4. When charging is completed, unplug the charging controller from the battery before unplugging the power supply cable.

Firmware upgrade

1. Make sure no batteries are plugged into the charger.

2. Turn on Bluetooth and connect the APP, and click Upgrade.

3. After the upgrade is complete, remove and reinsert the power cable ,and restart the charger.

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- Do not plug the battery into the charger during the charger upgrade.
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- Do not cut off the power and keep your device away from the charger during the upgrade.
 - If the upgrade fails, try again.
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Storage and Maintenance

1. When the charger is charged finish or not in use, disconnect the battery charging cable from the charger, disconnect the power cable, and fix the battery charging cable and controller to the fixed position for stability protection.
2. The charger can be handled by the handle alone, and the charging cable should be fixed before handling.
3. Keep the charger away from direct sunlight, rain or humidity for a long time.
4. Store charger away from heat source, high pressure, water, flammable gas, corrosive and other dangerous materials.
5. Please clean the heat dissipation hole of the charger regularly to ensure the charging effect.

Caution

1. AC power input port and generator plug with high voltage ,do not touch.
2. Charger belongs to the product of large leakage current ,before the use of power,must connect the ground wire, to ensure reliable grounding.
3. When charging indoors, make sure use the 16A air conditioning port socket, and make sure the charging line is larger than 2.5m² national standard line; Do not use a 10A socket to transfer to a 16A socket.
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4. During the charging process, a human need to guard, To ensure safe of charging ,keep the distance between the battery and the charger or the battery and the battery greater than 30cm.
5. When using this product ,please keep away from heat,high pressure,water and inflammable, explosive and corrosive dangerous goods.
6. The product should be placed on a horizontal table ,not titled, and must be left with enough ventilation distance (recommended to be more than 50cm away from the wall, heat source, windows air inlet) to ensure good ventilation when the product is working.

7. In case of fire, please use the dry chemical extinguisher correctly to extinguish the fire, The use of liquid extinguishers may cause the danger of electric shock.
8. Forbid to insert any non-EAV battery for charging ,Do not unplug the power cord during charging ,after charging, remove the battery in time.
9. Do not plug or remove the battery when it is charged, Otherwise, a charging fault will occur, if the yellow light of the battery controller is steady on. wait for about 10 minutes and the charging will return to normal, If you need to plug in and out, you can manually turn off the battery
10. When the plug is not inserted into the battery, the plug of the battery has 55.9V/2A output. Do not touch it. Keep the plug clean to avoid dust, dirt or pesticides causing poor contact and charging failure.

Warranty Certificate

EAVISION Robotics Technologies Warranty Certificate (Customer)					
Product Information	Product Name				
	Model Specification				
	Manufactured In	Suzhou, China			
	Serial Number				
User Information	Name		Address		
	Phone Number		Email		
Sales Information	Sales Unit		Address		
	Contact Number		Email		
	Sales Date		Unit Price		
	Invoice Number		Sales Unit Stamp		
Manufacturer Information	Manufacturer Name		Address		
	Phone Number		Email		
Maintenance Records	Repair Date	Delivery Date	Failure Description	Repair Details	Repairer
Remarks: 1. This certificate must be stamped by the authorized sales unit of EAVISION Robotics Technologies Co., Ltd. to take effect. 2. For details, please refer to the Applicable detailed list of company guarantees.					

Please Follow EAVISION Official Social Media Channel:

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The contents of this manual and product specifications are subject to change without prior notice.

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