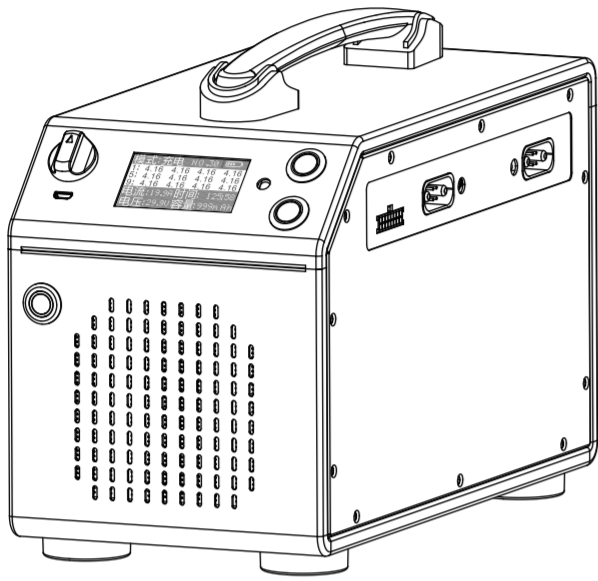


PRODUCT MANUAL

U6Q Fast charger

Support LiPo/LiHV/smart battery



For Industrial use only!

SHENZHEN EV-PEAK NEW ENERGY TECHNOLOGY CO.,LTD.
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Preface

Thank you for purchasing EV-PEAK Balance Charger. This manual could help you install and operate easily. Please read the manual carefully before operating and keep it handy for further reference. Items herein mentioned is only supplementary to local safety regulations.

WARNING

Very important to understand the items as below. Failure to comply with the mentioned items, it would damage to the charger or battery, injure to your body or even cause a fire disaster.



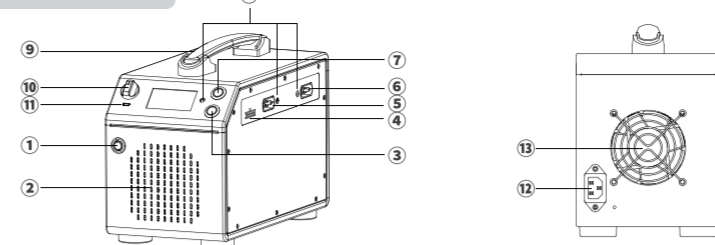
- Do not put the charger in inappropriate conditions such as direct sunlight, rain, moisture and so on
- Keep it away from thermal source, high voltage, water, flammable gas, corrosives and so on, be sure to keep it at the range of recommended temperature 0°C-40°C/32°F-104°F.
- Keep it horizontally stable to avoid any tilt or shake. And be sure to provide it (around>50cm) with enough ventilation during operating.
- Do not put anything or any cover on the radiator or battery during operating.
- Do not charge any non-rechargeable Lithium batteries with out of specifications.
- Keep the charger and battery on an anti-flammable and anti-conductive surface, and do not put it on car seat, carpet and so on to avoid any losses or damages.
- Do not use any voltage out of the specifications, and provide it with the specified type of battery and number of battery.
- Do not charge or discharge any battery that has been damaged physically.
- Do not plug off the input cable during operating, and plug off timely once charging completed.
- Please wipe off any object attached to the metal ports with dry cloth.
- Do not disassemble or modify the charger by yourself.
- Do not operate it during thunderstorm.
- Keep children under age of 14 away from the charger.
- Do not tumble, short-circuit, reverse polarity to avoid damage before connecting.
- Keep an eye on it during operating.
- Please use dry powder extinguisher in case in fire, and do not take liquid extinguisher to avoid electric shock.

Product Introduction

This product charges 4 sets of lithium batteries at the same time, with a maximum output power of 3000W. Two modes of charging and maintenance can be selected. The charging current can be adjusted between slow charging, normal charging and fast charging. It has over-current protection, over-temperature protection, and disconnection. Protection, fast equalization, display status indication and other functions. U6Q is highly integrated with the charge butler function. In slow charging mode, 4CH is charged at the same time. In fast charging mode, the battery is charged in cycles according to the saturation and higher battery charging sequence. The peak peak current and the maximum charge current can reach 60A; The normal mode charges two batteries at the same time, the charging current is automatically and evenly distributed, and the operation is simple. The charger is equipped with an LCD dot matrix display and supports Chinese, English and Japanese display. During use, the operating mode, charging voltage, charging current, charging time, battery capacity, and battery cell voltage are automatically displayed.

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Part Name



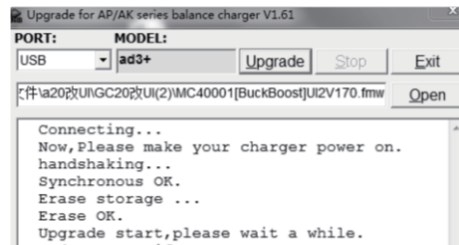
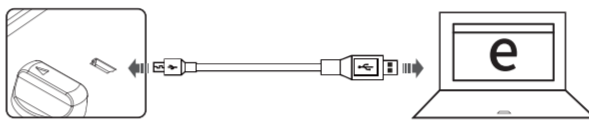
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|-------------------|---------------------------|-------------------------------|
| ① Main switch | ⑥ Charging port 2 | ⑬ MICRO_USB Upgrade interface |
| ② Inlet | ⑦ Maintenance button | ⑭ AC Input |
| ③ Charging button | ⑧ LED indicator | ⑮ cooling fan |
| ④ Balance mouth | ⑨ Handle | |
| ⑤ Charging port 1 | ⑩ Current adjustment knob | |

* ④⑤ are the same battery charging port and balance port, ⑥ is an independent channel without a balance port; the opposite is the same.

FIRMWARE UPGRADE

Please visit EV-PEAK official website to upgrade firmware if needed and follow the steps as below:

- Visit EV-PEAK official website www.ev-peak.com (http://www.ev-peak.com/firmware)
- Connect the charger to your computer via Micro USB upgrade port.

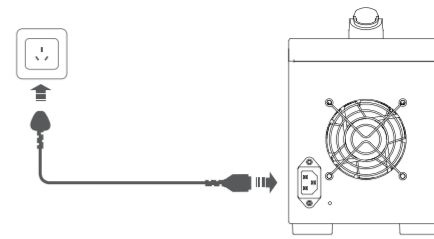


- Run the firmware and click "Upgrade" button to upgrade.
- After upgrade completed, the equipment will restart.
- If failure to upgrade, please restart steps as above.

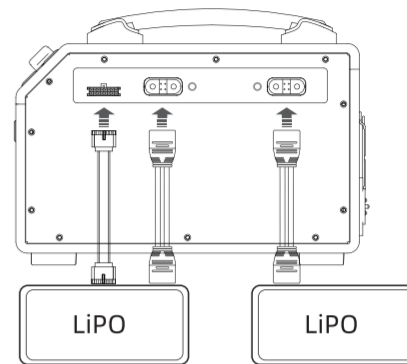
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Connection instructions

- Connect power cord to AC input port and AC power socket (100-240V, 50/60Hz), and turn on "Power On" switch to start up.



- Connect each LiPo battery pack to the charger via charging and balance port with compatible connectors as illustrated.



- Before connecting, please check whether the terminals and wiring harness of the battery pack are damaged or disconnected;
- When using the adapter cable, be sure to connect according to the positive and negative signs.



This charger only supports hybrid charging in fast charging mode! Not Supports different sets and different types of battery hybrid charging in normal and slow charging mode!

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Operating Instructions

The charger is dual channel with independent output and independent interface. Take either channel of the charger for example as below:

1. Startup and Self-Test

The charger automatically count down after getting all the connectors well connected, LCD screen turning on, and buzzer alarming. The charger starts charging normally after the buzzer stops. Long press "Storage" button for more than 2s to function storage.

2. Operation Modes

- Charging mode: It's an automatically preferred mode, after getting the battery well connected, the charger countdown self-checks, automatically detects and starts up charging, or bypassing countdown self-check and directly manual startup.
- Storage mode: It's a manual mode, while battery is in idle, recommended to take storage every 15 days; or while battery life significantly declines or more than 50mV cell voltage tolerance; In storage mode, the charger charges and discharges with trickle current to get each cell voltage balanced to 3.84-3.86V.
- Continuous working mode: After getting the charging extension manager connected, the charger automatically detects and switches to continuous working mode. In this mode, automatic mode doesn't work any more, user needs to manually operate and define the continuous working mode once, and then the charger coordinately and continuously work with the charging extension manager until pressing any button to stop or power off.

3. Setting Of Charging Modes

Based on battery capacity and actual application, adjust current switch to right gear.

4. Charging

Long press charge button more than 2 seconds to charging mode.

- Red light on, the charger is charging battery, and LCD display indicates real time charging status.
- Green light on, charging finished.
- Press any key to stop charging.

5. Storage

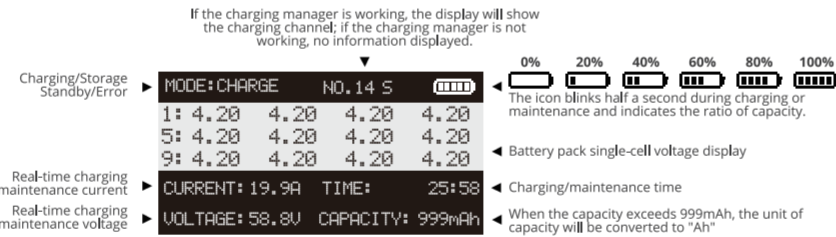
Long press charge button more than 2 seconds to charging mode.

- Red light on, the charger is charging battery, and LCD display indicates real time charging status.
- Green light on, charging finished.
- Press any key to stop charging.

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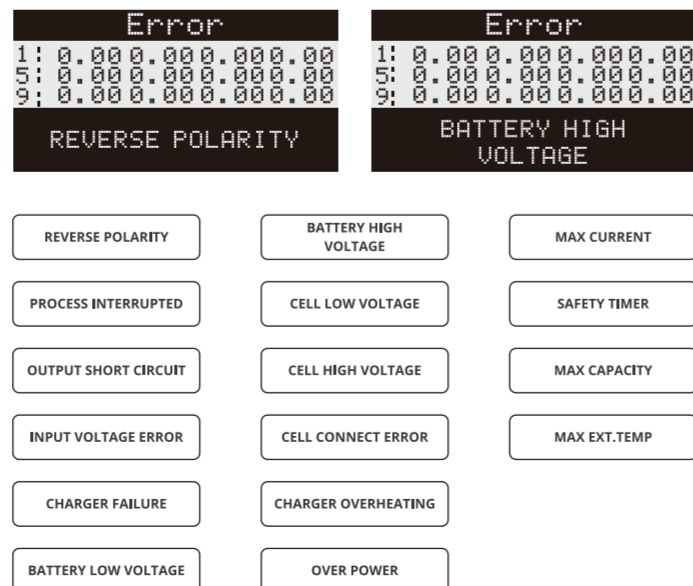
SCREEN

The interface displayed as below:



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When the wrong use of charger or failure, the charger will prompt an error message! As shown below:



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Indicator status description

Host indicator

Flashing red	Standby
Red light always on/ Yellow light always on	Charging/Maintenance
Steady green	carry out
Traffic lights flash alternately	Abnormal charger
Yellow light/green light flashes	Abnormal battery

Channel indicator (The red light flashes for 5 seconds)

Flashing green	Standby/No battery
Red light is always on	At work
Steady green	Carry out
Flashing yellow	Connection not completed
Traffic lights flash alternately	Error

Specifications

Enter	AC 100-180V / AC 180-240V
Output	Max. 60.9V ≈ Max. 50.0A/60A
Output Power	AC 100-180V The maximum output power is 1500W AC 180-240V The maximum output power is 3000W
Battery Type	LiPo/LiHV/Smart battery
Number of batteries	6S-14S
Number of channels	4CH (among them 1,3 channels support balanced charging)
Balance accuracy	±20mV
Protection features	Overvoltage, voltage limiting, current limiting, overheating, short circuit, reverse connection
Working temperature	5-40°C
Cooling system	Forced air cooling
External upgrade interface	USB interface
Size	301.5×150×220mm
Weight	≈6.2kg

Note: The product specifications mentioned in this practical manual are for reference only, and will not be notified if the content is updated.

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SUPPORT AND WARRANTY

Thank you for purchasing our EV-PEAK charger. We do our best to provide you with timely and satisfying support. Please contact us with any questions or concerns.

This product is warranted to be free from manufacturer defects for 1 year from original purchase date. Please keep your original proof of purchase for warranty purposes.

Disclaimer: What our manufacturing warranty does not cover.

- Damage caused by incorrect connections.
- Damage caused by incorrect operation.
- Damage caused by impact or drops.
- Damage from disassembly or modification.
- Internal damage from moisture, submersion, dust, dirt or other contaminants.
- Signs of normal wear and tear, scratches dents and dings.



Note: Any expense exceeding the original purchase price of the charger shall not be borne by EV-PEAK. We reserve the right to modify the contents of this manual at any time with or without notice.

WARNING!

- Do not attempt to operate this charger if you are impaired in any way.
- Do not allow children to be near this charger when it is in operation.
- Do not allow children to operate this charger.
- Please turn the power off when the charger is not in use.
- This charger is for indoor use only.



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EV-PEAK

Shenzhen EV-PEAK New Energy Technology Co.,Ltd
www.ev-peak.com

The product specifications and information mentioned in this instruction manual are for reference only and are subject to change without prior notice.

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