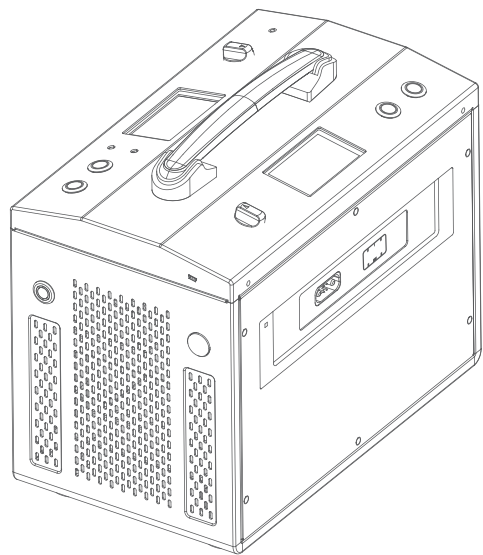


Product Manual

Fully compatible intelligent
& non-intelligent battery

Multi Language Support
▲ for Industrial Use



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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

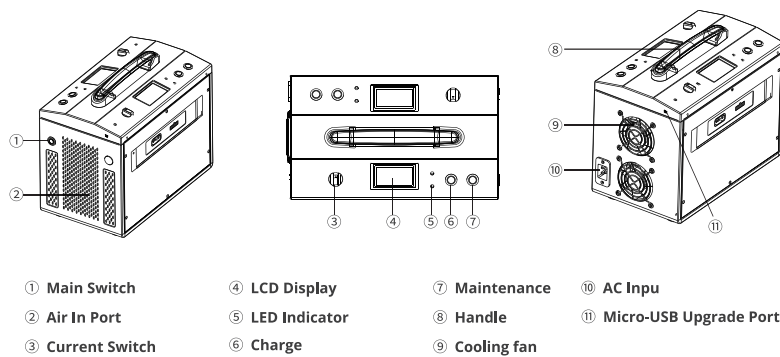
- Very important to understand the items as below. Failure to comply with the mentioned items, it would damage to the charger or battery, injure to your body or even cause a fire disaster.**
- WARNING**
- Do not put the charger in inappropriate conditions such as direct sunlight, rain, moisture and so 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.

INSTRUCTION

This intelligent charger, with 2 charging channel, charging & maintenance mode, and 3 gear charging speed, automatically detect and run after connected with LiPo battery. The charger also has multi-mechanism protection of over-current, over-charging, over-temperature and safety cut-off, and extra function of fast-equilibrium and status indication.
With the U5 series charger and the charging extension manager combined, 8 sets of LiPo battery can be connected simultaneously and charged alternately based on the capacity difference of battery.
With double LCD display equipped, the charger automatically indicates real time charging status, charging voltage, charging current, charging time, battery capacity and cell voltage.

1

DIAGRAM



Description of charging interface for U5 series models

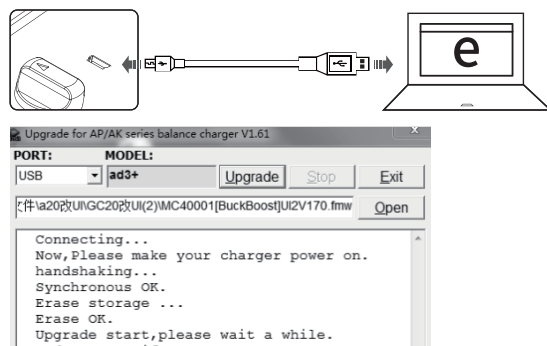


2

FIRMWARE UPGRADE

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

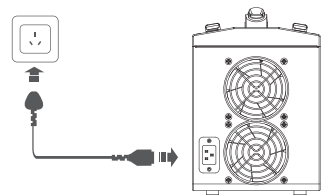
- Visit EV-PEAK official website www.ev-peak.com (http://www.ev-peak.com/firmware)
- Connect the charger to your computer via Micro USB upgrade port.



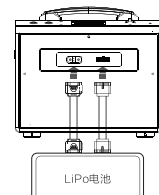
- Run the firmware and click "Upgrade" button to upgrade.
- After upgrade completed, the equipment will restart.
- If failure to upgrade, please restart steps as above.

INSTRUCTIONS

- First, connect the power cord to the AC input port and the other end to the AC power supply (100-240V, 50/60Hz), turn on the power switch and start the charger.



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



- Adapters may be required for connection to the charger**
- Always confirm that connection polarity is correct before charging
 - Always inspect batteries for physical damage before attempting to charge

3

OPERATING

U5 series charger is a dual-channel independent output, each channel operation interface is also independent, the following single channel to do the explanation.

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

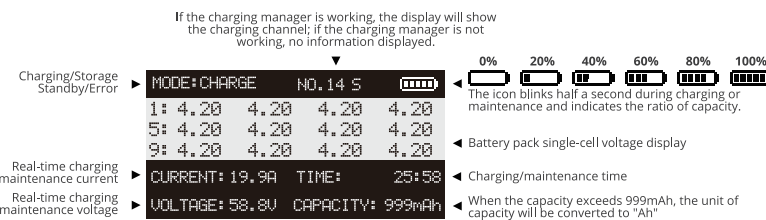
- Long press charge button more than 2 seconds to charging mode.
- Red light on, the charger is charging battery, and LCD display indicates real time charging status.
 - Green light on, charging finished.
 - Press any key to stop charging.

Tips: Under continuous working mode, the charger automatically run a series of operations, which come from intelligent instructions of the charger without manual intervention, including stopping, testing, switching and so on.

4

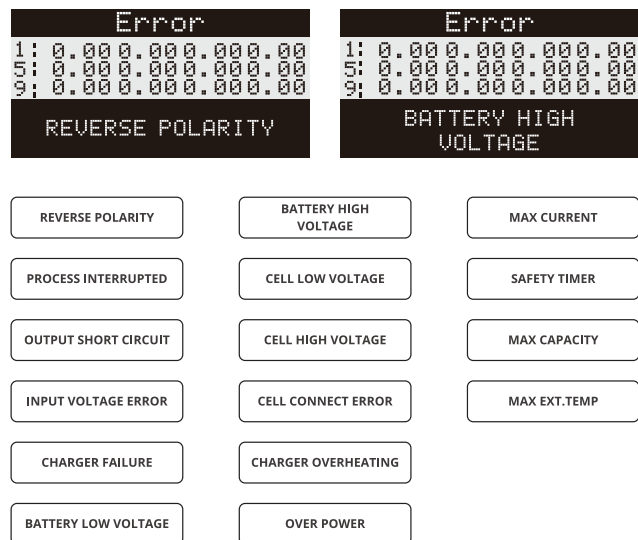
SCREEN

The interface displayed as below:



ERROR

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



5

STATUS INDICATOR

Status Indicator

	Green flashing LED	Standby
	Red solid LED	Working
	Green solid LED	Done
	Green and Red flashing alternately	Error

SPECIFICATIONS

Model No	U5/U5-A/U5-C	U5+/U5I
AC Input	100-120V ~ 18A 60Hz / 180-240V ~ 16A 50Hz	
Output	Max. 52.2V = Max. 30.0A	Max. 60.9V = Max. 30.0A
Max. Output Power	Max. 1500W×2CH	
Battery Type	LiPo/LiHv/Smart battery	
Battery Cell Count	6S/10S/12S	6S - 14S
Channel Count	Dual channel	
Balance Accuracy	<20mV	
Input Protection	Overcurrent	
Output Protection	Over voltage, Undervoltage, Short circuit, Over temperature, Reverse polarity	
Working Temperature	5-45°C	
Cooling System	Forced air cooling	
Upgrade Port	USB	
Dimensions	325×190×280.5mm	
Weight	≈9.1kg	

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

6

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.

WARNING! 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.



7