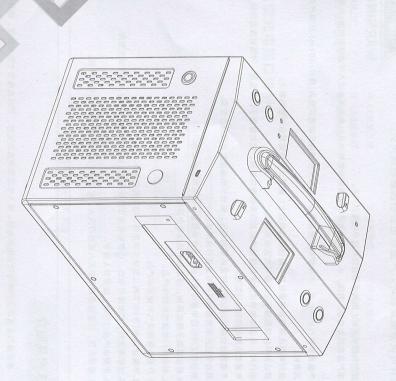
使用说明书/User Manual

U5T+

智能平衡充电器/Smart Charger



本产品由北方天途航空技术发展(北京)有限公司授权生产 Authorized by Beijing TT Aviation Technology Co., Ltd. 制造商:深圳市永航新能源技术有限公司 Manufacturer:Shenzhen EV-PEAK New Energy Technology Co., Ltd.

operating and keep it handy for further reference. help you install and operate easily. Please read the manual carefully before Thank you for purchasing U5T+ Balance Charger. This manual could

Items herein mentioned is only supplementary to local safety regulations.

WARNING

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



- Do not put the charger in inappropriate conditions such as direct sunlight, rain, moisture and so on.
- 2. Keep it away from thermal source, high voltage, water, flammable gas, corrosives and so on, be sure to
- 3. Keep it horizontally stable to avoid any tilt or shake. And Sufficient ventilation distance must be keep it at the range of recommended temperature 0°C-40°C/32°F~104°F.
- 4. Forbidden to cover the radiator or battery with objects during operation; Prohibited to place battery on leftaround (>50cm recommended) to ensure good ventilation and heat dissipation during operation.
- 5. Prohibited to charge lithium batteries that do not match the cell numbers or models, or non-rechargeable
- 6. Keep the charger and battery on an anti-flammable and anti-c onductive surface, and do not put it on car seat, carpet and so on to avoid any losses or damages
- of batteries must meet the output. 7. Do not try to connect to a power source that does not meet the rated input voltage; The cell number and type
- 8. Do not charge or discharge any battery that has been damaged physically.
- 9. Do not disconnect the input cable during operation, and disconnect battery timely once charging completed.
- 10. Please wipe off any object attached to the metal ports with dry cloth.
- 11. Do not disassemble or modify the charger by yourself.
- 12. Do not operate it during thunderstorm.
- 13. Keep children under age of 14 away from the charger.
- 14. Do not damage battery, short-circuit, or reverse battery polarity to avoid danger before connecting.
- 15. Never leave the charger unattended when it is working
- 16. Please use dry powder extinguisher in case in fire, and do not take liquid extinguisher to avoid electric shock

INSTRUCTION

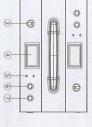
over-current, over-charging, over-temperature and safety cut-off, and extra function of fast-balancing and status automatically detect and run after connected with LiPo battery. The charger features multi-mechanism protection of This intelligent charger, with 2 charging channel, charging &maintenance mode, and 3-speed charging switch,

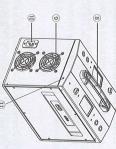
connected simultaneously and charged alternately based on the remaining capacity of battery. With the U5T+ smart balance charger and the charging butler UB5T+ combined, 10 sets of LiPo battery can be

charging current, charging time, battery capacity and cell voltage. With dual LCD display equipped, the charger automatically indicates real time charging status, charging voltage,

PARTS DESCRIPTION







2 Air In Port 1 Main Switch

3 Current Switch

- 4 LCD Display
- 5 LED Indicator

6 Charge

- 7 Maintenance
- 9 Cooling fan

8 Handle

- 10 AC Input
- 11 Micro-USB Upgrade Port

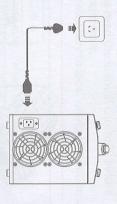
Description of charging interface of this model



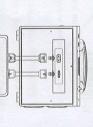
AS150U+MX3.0

CONNECTION INSTRUCTIONS

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



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



Adap tersmay be required for connection to the charger

Always confirmthat connection polarity is correct
before charging

Lipo Batter

 Always inspect batteries for physical damage before attempting to charge

OPERATING

The smart charger is dual-channel independent output, each channel operation interface is also independent, the following will take one channel as example for introducing the operation procedure.

Startup and Self-Test

The charger will automatically count down after getting all the connectors well connected, LCD screen and LED will turn on, and buzzer will alarm. The charger starts charging normally after the buzzer stops. If user needs maintenance or does not want to wait, user can long press the function button> 25 to start directly.

2. Operation Modes

Charging mode: It's an automatically preferred mode, after getting the battery well connected, charger
will do self-check and countdown. After passing the self-check and countdown, charging will be started
automatically. User can press the Charge button to skip the countdown.

2, Storage mode: It's a manual mode, When the battery is not used for a long time, it is recommended to maintain the battery every 15 days (specifically follow the battery manufacturer's instruction manual); or In normal use, if the battery life is significantly reduced or the battery cell voltage difference exceeds 50mV, maintenance is recommended; In storage mode, the charger charges and discharges with trickle current to get each cell voltage balanced to 3.84-3.86v.

3, Continuous working mode: After getting the UB5T+ butler connected, the charger automatically detects and switches to continuous working mode. In this mode, automatic mode will be closed, user needs to manually operate and define the continuous working mode once, and then the charger will coordinately and continuously work with the UB5T+ butler until pressing any

3. Setting Of Charging Modes

According to battery capacity and actual application, user shall select a appropriate current switch



4. Charging

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

1.Red light on, the charger is charging battery, and LCD display indicates real-time charging status

Green light on, indicates charging finished.

3.Press any key can stop charging.

In the continuous working mode, charger will automatically perform a series of actions such as stop, detection, and channel switching. These actions are all executed by charger intelligently without human intervention. After user presses a key to stop, if the battery is not removed within 30 seconds, charging will automatically resume.

5. Storage

Long press storage button more than 2 seconds to enter storage mode.

1. Red light on, the charger is maintaining battery, and LCD display indicates real time maintenance status.

Green light on, maintenance finished.
 Press any key can stop maintaining.

In the continuous working mode, charger will automatically perform a series of actions such as stop, detection, and channel switching. These actions are all executed ctions such as stop, detection, and channel switching. These actions are all executed stop, if the battery is not removed within 30 seconds, maintenance will automatically resume.

SCREEN

The interface displayed as below:

If charger works with butler, the display will show the charging channel; if charger works without butler, no channel info will be displayed.

	Charging/Storage Standby/Error ▶	
5 H	MC	
1: 4.20 5: 4.20	MODE:CHARGE	
4.20	J. J.	
4.20	V NO.14 S	
4.20		
mai	₹ No.	

Real-time charging VOLTAGE: 58.8V Real-time charging maintenance current CURRENT: 19.9A

TIME:

e icor	9%
n blinks h nance an	20%
e icon blinks half a second during ch aintenance and indicates the ratio of	40%
ond during the rate	60%
ng ch	80

- 80% 100% charging or of capacity.

CAPACITY: 999mAh ■ When the capacity exceeds 999mAh, the unit of capacity will be converted to "Ah" 25:58 ■ Charging/maintenance time ttery pack single-cell voltage display

ERROR!

When encountering improper use or charger failure, the charger will prompt error messages! As shown below:

REVERSE POLARITY	1: 0.000.000.000.000.000 5: 0.000.000.000.000 0.000.000.000.000	Error
BATTERY HIGH VOLTAGE		Error

	কমান	
BATTERY HIGH	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	Error
	000 000	

INPUT VOLTAGE ERROR	OUTPUT SHORT CIRCUIT	PROCESS INTERRUPTED	REVERSE POLARITY
CELL CONNECT ERROR	CELL HIGH VOLTAGE	CELL LOW VOLTAGE	BATTERY HIGH VOLTAGE
MAX EXT.TEMP	MAX CAPACITY	SAFETYTIMER	MAX CURRENT

	CHAR	CELL
	CHARGER OVERHEATING	CELL CONNECT ERROR
-		MAX EXT.TEMP

BATTERY LOW VOLTAGE

OVER POWER

CHARGER FAILURE

STATUS INDICATOR

Status Indicator

*	※ 	<u>₩</u>	<u>₩</u>	
Green and Red flashing alternately	Solid Green	Solid Red	Flashing Green	
Error	Completed	Working	Standby	

SPECIFICATIONS

Weight	Dimensions	Upgrade Port	Cooling System	Working Temperature	Output Protection	Input Protection	Balance Accuracy	Channel Count	Battery Cell Count	Battery Type	Max.Output Power	Output	AC Input	Model No
≈9.2kg	325×190×280.5mm	USB	Forced air cooling	0°C-40°C/32°F~104°F	Overvoltage, Undervoltage, Short circuit, Over temperature, Reverse polarity	Overcurrent	<20mV	Dual channel	125/145	LiPo/LiHv\$mart battery	Max. 1200W×2CH	Max. 60.9V = Max. 30.0A	100-120V~18A 60Hz / 180-240V~16A 50Hz	U5T+

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

SUPPORT AND WARRANTY

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

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

Disclaimer: What our manufacturing warranty does not cover:

- 1. Damage caused by incorrect connections.
- Damage caused by incorrect operation.
 Damage caused by in pact or drops.
- 4. Damage from disassembly or modification.
- 5. Internal damage from moisture, submersion, dust, dirt or other contaminants. 6. Sins of normal wear and tear, scratches dents and dings.



Note: Any expenses exceeding the original purchase price of the charger shall not be borne be TT Aviation. We reserve the right to modify the contents of this manual at any time with or with out notice.

WARNING!

- impaired in any way. 1.Do not attempt to operate this charger if you are
- it is in operation. Do not allow children to be near this charger when
- 3.Do not allow children to operate this charger.

RISK OF ELECTRIC SHOCK DO NOT OPEN! WARNING!

- 4. Please turn the power off when the charger is not
- 5. This charger is for indoor use only.

Authorized by Beijing TT Aviation Technology Co., Ltd. Manufacturer :Shenzhen EV-PEAK New Energy Technology Co., Ltd.

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

