

INSTRUCTION MANUAL

Dual Channels LiPo/LiHV Charger For Big Drones

ULTRAPOWER

UP600+

Product Description

UP600+ is specifically designed for dual channels LiPo/LiHV charger of big drones, it can charge & storage 2pcs of 2-6S LiPo/LiHV battery packs simultaneously, with "one-button charge" function, easy to use. In addition, UP600+ has over-voltage, over-current, reverse polarity, and over-temperature protection to ensure maximum safety.



Specification

Input Voltage: AC 110V or 220V	Battery Type: LiPo / LiHV
Charge Output Power: 1200W(600W x2)	Battery Cell Count: 2-6S(also can charge 2S/3S radio battery)
Discharge Power: 80W(40WX2)	Working Mode: Charge / Storage
Charge Current : 5A/10A/15A/20A/25A	Dimension: 268X140X127mm
Balance Current: 1.5A/cell	Net Weight: 3.1KG

Features

- Support charging 2 pcs of 2-6S LiPo/LiHV batteries.
- With independent radio battery connection port, support charge 2S/3S radio battery.(Only one radio battery can be charged one time).
- Charging current is adjustable: 5A/10A/15A/20A/25A.
- Two working modes: Balance charge mode, Storage mode.
- Memorizing last charging current.
- Multiple protection function: over-voltage, over-current, reverse polarity, and over-temperature protection.

Operation Procedure

1. Power on: Connect to the power source and turn on the power switch. The two-color indicators will illuminate for 2 seconds, and the LCD display screen will show the start-up page for 2 seconds, and then it will enter into the standby page.



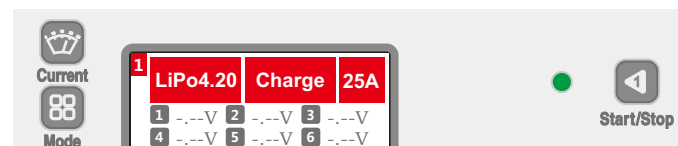
2. Battery connection: Please connect your batteries according to below picture.




1) Connect to the battery


2) Connect to the balance socket.

3. Setting the charging parameter.




1) Press  button to choose the appropriate current, 5A, 10A, 15A, 20A, 25A (Normally, we suggest to charge with 1C charge current).



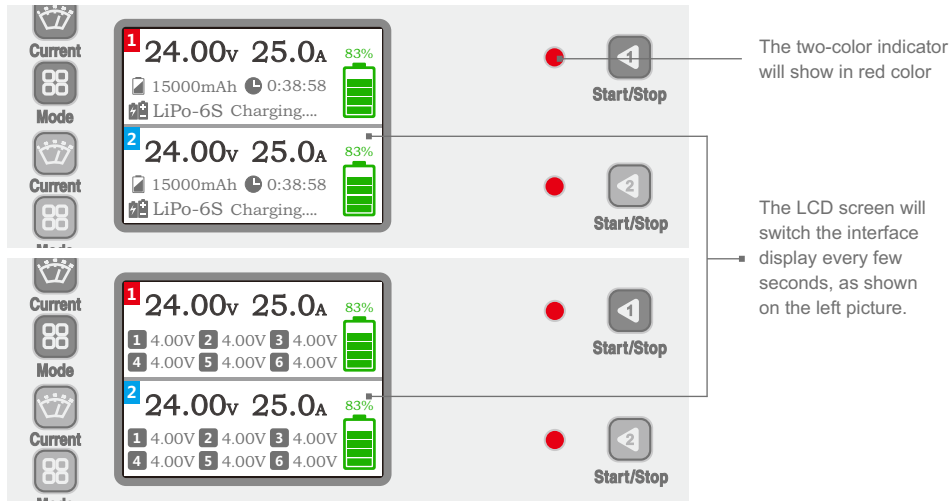
2) Press  button to choose the mode you need, the default mode is charge mode.



3) Long press  for 2 seconds until heard "beep" sound, the two-color indicator will flash, now the charger is under charging process.

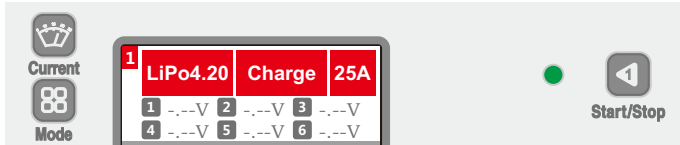
Stop: If you want to stop in working process, please press  button.

Charging Process, Indicate The Battery Level Status



Switch With LiPo Battery And LiHV Battery

- ⚠ Please take seriously with this function, wrong battery type connected will damage battery even catch fire explosion.



1) LiPo battery switch to LiHV battery

Press the and simultaneously for 3 seconds, the device will go into LiHV battery mode.

2) LiHV battery switch to LiPo battery

Only need to press the and simultaneously, the device will go into LiPo battery mode, (LiPo cut off voltage: 4.2V, LiHV cut off voltage: 4.35V).

Storage Mode

If a Lithium battery is not used for long time, it's highly recommended to charge or discharge the battery to 3.80V with Storage mode so as to extend the battery's life. when the battery voltage is higher than 3.80V per cell, the charger will discharge the battery; on the opposite, when the battery voltage lower than 3.80V per cell, the charger will charge the battery under Storage mode.



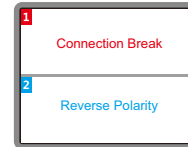
Press the "Mode" button, choose the Storage mode.



Long press the "Start/Stop" button, enter into the Storage mode.

Important Information Tips

When the charger appear below abnormal situations, the two-color indicators will flash in red, and LCD display screen will appear fault message, please refer to below specific message notification and reasons.



Note: the two-color indicators will flash in red, and LCD screen will appear fault message.

Fault message	Cause analysis
Connection Break	No battery connected: check if the battery main port correctly connected to the device .
Reverse Polarity	Battery polarity reversed: check the battery main port, polarity connected.
Cell Voltage High	Balance socket voltage abnormality: check if the battery balance port correctly connected to the device; check the battery voltage is normal or not.
INT. TEMP High	Temperature protection: check the cooling fan running is normal or not and check if the external environment temperature is too high.
Over Load!	Current overload protection: the device will stop charging once the current over 30A.

Important Warning And Safety Instruction

- ⚠ These warnings and safety instructions are particularly important. Please follow the instructions for maximum safety. Otherwise the charger and the battery can be damaged or at worst it can catch fire.

- Never leave the charger unattended when it is connected to its power supply. If any malfunction is found, TERMINATE THE PROCESS AT ONCE and refer to the operation manual.
- Keep the charger away from dust, moist, rain, heat, direct sunshine and vibration.
- The input voltage is AC 110V or AC 220V, before connect to the power source, please keep its input voltage is the same as the charger's.
- Default battery type is standard LiPo battery type with charge mode. Before connecting the battery, please keep the battery type comply with the charger setting.

Warranty And Service

We guarantee this product to be free of manufacturing and assembly defects for a period of one year from the time of purchase. The warranty only applies to material or operational defects, which are present at the time of purchase. During that period, we will repair or replace free of service charge for products deemed defective due to those causes.

You will be required to produce proof of purchase (invoice or receipt). This warranty is not valid for any damage or subsequent damage arising as a result of misuse, modification or as a result of failure to observe the procedures outlined in this manual.