

# UP-S6 INSTRUCTION MANUAL

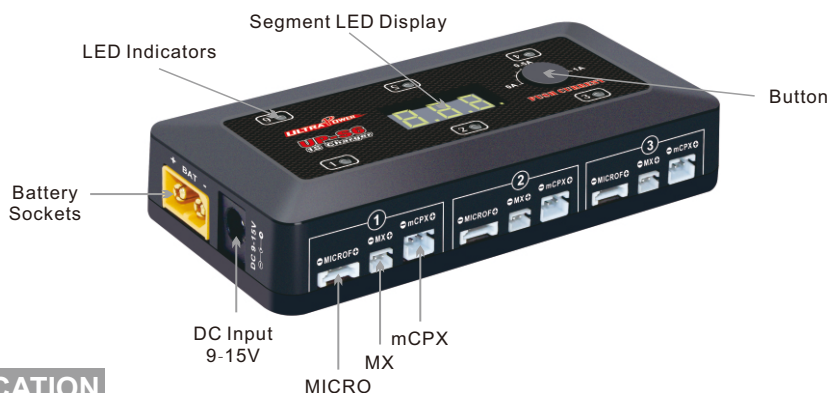
## LIPO/LIHV SMART CHARGER FOR 1S BATTERY



### INTRODUCTION

Thank you for choosing Ultra Power UP-S6 Charger for charging 1S battery. This unit is simple to use but its operation does require some knowledge on the part of the user. Please read this entire operating manual completely and attentively before using this product, as it covers a wide range of information on operating and safety.

UP-S6 employs the circuit that features 6 totally independent but identical power outputs which are powered 4.35W each. It is designed for charging single cell LiPo and LiHV. Insert the battery lead to the right connector in each port, the charger can charge 6 batteries at the same time. The charging current can be adjusted from 0.1-1.0A and also support 5V, 2.1A USB charging. The charging status can be displayed in digital segment LED Indicators.



### SPECIFICATION

DC input voltage	9.0V-15.0V
Charge power	Max. 4.35W x6, ±10%
Charge current	(0.1-1.0A) x6, ±10%
Battery type	LiPo/LiHV
Battery cell count	1cell
Indication	LED light
Support battery port	Micro, MX, mCPX
Support USB charge port	5V/2.1A
Net weight	70g
Dimension	100x50x22mm



### FEATURES

- Six independent ports can be used at the same time
- Three different kinds of battery connectors in each port
- Six independent charging circuits
- LED and audible sound indicate charging status
- Adjustable charging current from 0.1-1.0A
- USB port (5V/2.1A) for charging iPad, mobile phones, digital cameras, etc.
- Maximum protection: battery reverse polarity protection, battery over voltage protection and DC input voltage protection

### CHARGE PROCEDURES(Connection and self-checking)

1. Correctly connect with DC Input or battery input.
2. After powered on, UP-S6 will start self-checking. All six indicators will light on with red and all LED segment display will light on as number 888.
3. All indicators will change the color from red to green and the LED segment display will show voltage value of power input.
4. Check each channel, the indicators will light on one by one from channel 1 to channel 6, If all check results ok, the 6 indicators will light off after self-checking
5. The LED segment display will show the setting current value. And UP-S6 is ready to charge batteries.
6. The user can change the current setting and battery setting before battery connected. Please refer to chapter "Charge Setting" with detailed process.
7. After setting done, the user can connect with 1s batteries. Once any channel connected, UP-S6 will start to charging automatically with flashing red color indicator. The flash frequency is different according to different battery types (LiHV is faster than LiPo).
8. During charging, the display will show the battery type and battery voltage of each working channel circularly.
9. Once any channel fully charged, the indicator of this channel will change to green color and stop flashing.



## CHARGER SETTING

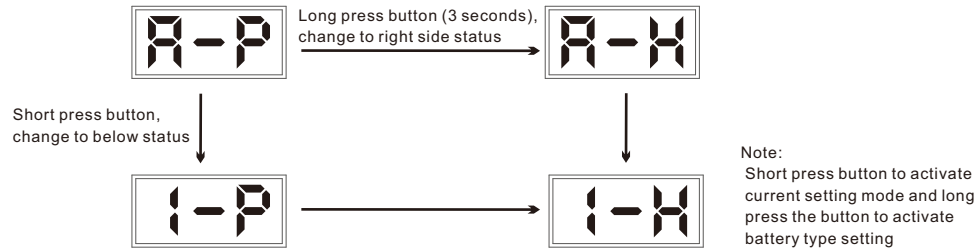
UP-S6 support current setting and battery type setting. Short press button to activate current setting mode and long press the button to activate battery type setting. Both setting can be activated even during charging.

## CURRENT SETTING

UP-S6 support current setting from 0.1A to 1.0A as below picture. This set current value applies for all 6 channels. Short press the button to adjust the target current value from 0.1A to 1.0A.



## BATTERY TYPE SETTING



- UP-S6 support both LiPo and LiHV battery, Long press (3 seconds) the button to activate battery type setting as above pictures.
- The LED segment display show default setting "A-P" which means battery type setting mode activated.
- The first letter (position "A") in the display represents which channel is under setting. It could be "A", "1", "2", "3", "4", "5", "6". "A" means all 6 channels will be set together. "1"-"6" means specific channel under setting.
- The last letter (position "P") represent battery type. It will change between "P" and "H". "P" means LiPo and "H" means LiHV.
- Short press button to change the first letter for different channels, Long press button (3S) to change the last letter (battery type).

If you want to charge specific channel one by one, short press the button to choose the appropriate channel and the last letter on the display shows current setting of chosen channel. You need to long press the button to change the battery type for this channel. After one channel set, you can short press the button to set another channel in next step.

If you want to change all 6 channels battery type together, just short press the button to make the first letter shows "A", then long press the button to choose the appropriate battery type.

After all the setting done, wait for 3 seconds along with 2 beeps sound and the indicators will blink one round to confirm all the settings recorded by UP-S6.

UP-S6 can record the last charging setting and recall it in next power on.

## ERROR WARNING

For the error "input voltage too low" and "input voltage too high", the error code shows on the display along with beep sound.

E-1	input voltage too low
E-2	input voltage too high

For the other errors, which belongs to specific channel, only flash indicator without showing battery type and battery voltage on the display.

## SAFETY PROTECTION

Input voltage too low protection	If DC input with battery and cell voltage lower than 3.3V, UP-S6 will stop charging and make reminder warning.
Polarity protection	If the battery connected with wrong polarity, UP-S6 can not start charging.
Over voltage protection	if detect the battery over voltage, UP-S6 will stop charging and keep flashing.

## 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, For any repair or replace service, please contact your dealer in the first instance, who is responsible for processing guarantee claims. 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.

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