H1

Manual V1.0

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ToolkitRC

www.toolkitrc.com

ToolkitRC CO.,LTD

Introduction

Thank you for purchasing and using the H1 battery charger. Please read this manual carefully before use.

Key Points

 Tips  Important  Information

Further information

To make sure you get the best experience using this product, please stay updated on news, information, and firmware updates about the H1 by visiting: www.toolkitrc.com/H1.

Safety

1，The H1 accepts an input voltage of 7.0–28.0 V DC. Ensure that the power supply voltage meets this range, and pay attention to the positive and negative polarities when connecting the power supply.

2，Do not use this product in hot, humid, flammable or explosive environments.

3，Please use this product under supervision to prevent accidents.

4，When not using this product, please unplug the input power.

5，When using the charging function, set the current to match the battery; never set the current too high, as this may damage the battery.

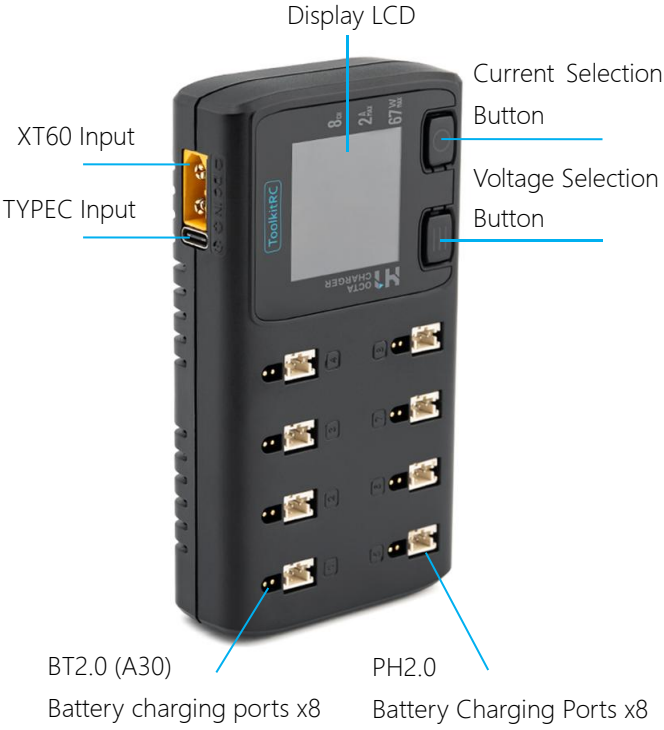
Contents

Product description

The H1 is an 8-channel 1S battery (LiPo, LiHv) charger. It features a compact design, high power density, an IPS full-view color screen, and charging accuracy of ±10 mV.

- Can charge, discharge, and store LiPo and LiHV (4.35V) 1S batteries
- Wide-range DC input: 7.0–28.0 V.
- The charging voltage can be set to: 3.85V, 4.20V, or 4.35V.
- Charging current can be set to: 0.5–2 A (in 0.1 A increments).
- Charging power:Single channel max 8.7W@4.35V-2A.
- Discharge Power: Max 1 W × 8 channels.
- Charging accuracy: ±10 mV.
- 1.54-inch IPS wide-view display.
- High resolution: 240 × 240 pixels.
- The battery voltage can be calibrated manually.

Get to Know the H1

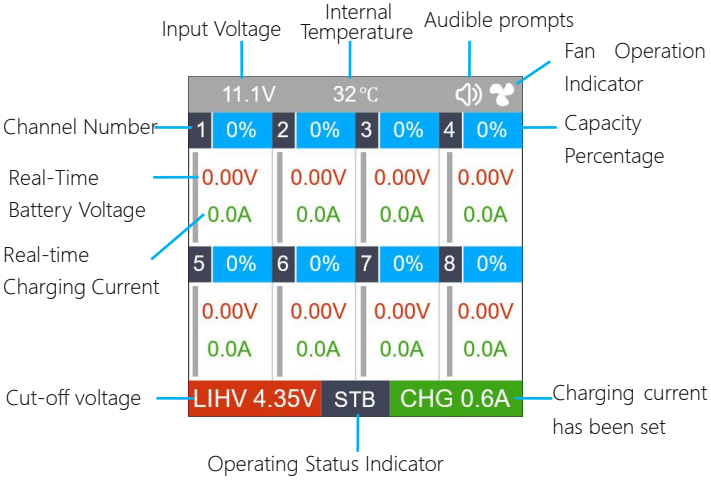


Quick start

1，Connect a DC voltage of 7.0–28.0V to the H1 input.

2，The display shows the startup logo and remains on for about 2 seconds.

3，Once the system has booted up, the display will show the main interface as follows:

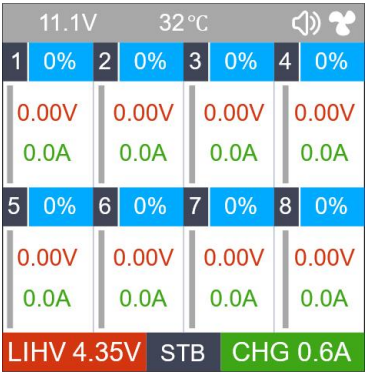


4，Briefly press the [Voltage Selection] button to select the battery (charge/discharge) cut-off voltage.
5，Briefly press the [Current Selection Button] to select the charging current.
6，Press and hold the [Voltage Selection Button] to enable or disable the beep.
7，In STB mode, press and hold the [Current Selection Button] to start charging.
8，In RUN mode, press and hold the [Current Selection Button] to pause charging.

Parameter Settings

1,Battery Type Settings

Press the [Voltage Selection Button] briefly to select the battery cut-off voltage (i.e., battery type). You can choose from three settings (LiPo 4.20V, LiHv 4.35V, STO 3.85V), as shown below.



Different types of batteries have different cut-off voltages, as shown in the table below:

4.20V	LiPo
4.35V	LiHv
3.85V	LiPo/Hv-Stroage

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Warning :

1, Charging the wrong type of battery may damage the battery and the charger, and could pose a fire hazard. Please be sure to choose the correct type.

2, Do not use this product to charge batteries whose type is not specified.

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Glossary:

1, LiPo: Commonly referred to as lithium-polymer batteries, these have a nominal voltage of 3.70 V and reach 4.20 V when fully charged.

2, LiHv:Commonly referred to as high-voltage lithium-ion batteries, these have a nominal voltage of 3.80 V and reach 4.35 V when fully charged.

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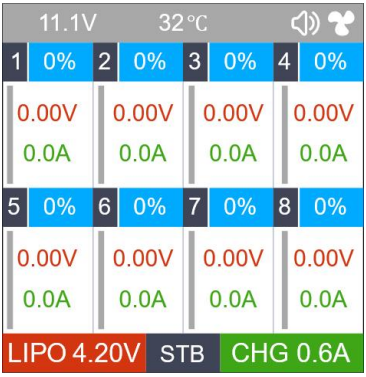
2,Current Settings

Press and hold the [Current Selection Button] to select the charging current. There are 16 current settings available, ranging from 0.5A to 2.0A (in 0.1A increments),as shown below:



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Tips:

3, Only one battery may be connected per channel. Do not connect batteries to both the BT2.0 and PH2.0 ports on the same channel at the same time!

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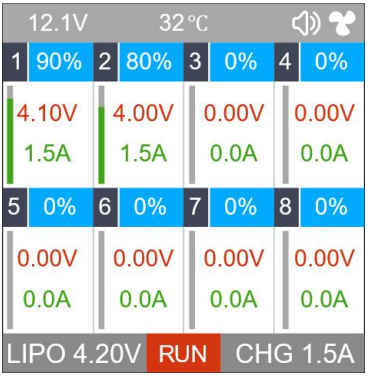
Start Charging

After setting the battery charging voltage and current, connect the battery. The charger will detect the voltage of the connected battery. Press and hold the [Current Selection Button]; when the display changes from STB to RUN, it indicates that the charger has switched from standby mode to charging mode. Press and hold the [Current Selection Button] again to switch the charger from charging mode back to standby mode. The display will appear as follows:



When the battery is fully charged, the buzzer will sound an alert, and the background color of the number in the upper-left corner of the corresponding channel will change from red to gray.

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Tips:

1, Only one battery may be connected per channel. Do not connect batteries to both the BT2.0 and PH2.0 ports on the same channel at the same time!

2, Pay attention to the operating status indicator. First, set it to STB, then connect the battery to the charging port, and finally press and hold the [Voltage Selection Button] to set it to RUN and start charging.

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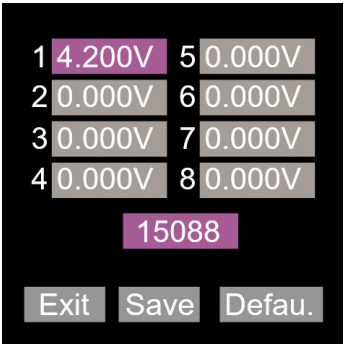
Manual Calibration

Before connecting the power supply, hold down the [Voltage Selection Button] and turn on the power to enter calibration mode, as shown in the figure below:



1, Briefly press the [Voltage Selection Key] or [Current Selection Key] to move the cursor.

2, When the cursor is positioned in the voltage display box for channels 1–8, press and hold the [Voltage Select] button or [Current Select] button to enter edit mode for the current channel. Press the [Voltage Select] button or [Current Select] button briefly to increase or decrease the displayed voltage value. Press and hold the [Voltage Select] button or [Current Select] button again to exit edit mode.

3, When the cursor is positioned at Exit,Press and hold the [Voltage Selection Button] / [Current Selection Button] to exit calibration mode.

4, When the cursor is positioned at Save, Press and hold the [Voltage Selection Button] / [Current Selection Button] to save the current settings.

5, When the cursor is positioned at Defau. Press and hold the [Voltage Selection Button] / [Current Selection Button] to restore the factory default settings.

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Warning: 1,The product has been calibrated at the factory. Please do not calibrate it yourself unless absolutely necessary. If you have any questions, please contact our after-sales technical support.

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Firmware Upgrade

1, After plugging in the charger, the display will show the firmware version number during startup. Check the firmware version.

2, Download the latest firmware package from the official website, save it to your computer, and unzip it to obtain the [app.upga] file for later use.

3, Disconnect the H1 from its power source. Using the USB-C Cable included in the package, connect the cable to your computer first, then hold down the [Voltage Selection Button] on the H1 while plugging the cable into the H1.

4, Once the computer detects the charger disk [Toolkit], copy the [app.upga] file from the firmware update package to the [Toolkit] disk.

5, Once the copy is complete, the [Toolkit] disk will pop out.

6, Unplug the data cable, turn on the device, and check the firmware version after the update.

Specification

Charging	Input Voltage	XT60 7.0-28.0V MAX 12A
		TYPE-C 7.0-20.0V@PD3.0
	Battery Type	LiPo、LiHv、LipoStorage（1S）
	Charging Power	MAX 8.7W@4.35V-2A*8CH
	Disharging Power	MAX 1W @4.35V*8CH
	Charging Accuracy	≤0.01V @4.35V
Display	LCD	IPS 1.54 寸 240*240 resolution
Products	Dimensions	115.0*63.0*26.5mm
	Weight	160g
Individual packing	Dimensions	117.0*82.0*30mm
	Weight	200g
Packing List		H1 Charger × 1 USB-C Cable × 1 Quick Start Guide × 1