

05/20/25
Wesley
Oden

Battery Maintenance

61

We have two lithium-ion 14.8V batteries.
The H6 Pro battery charger from blue Robotics can
be used to charge them.

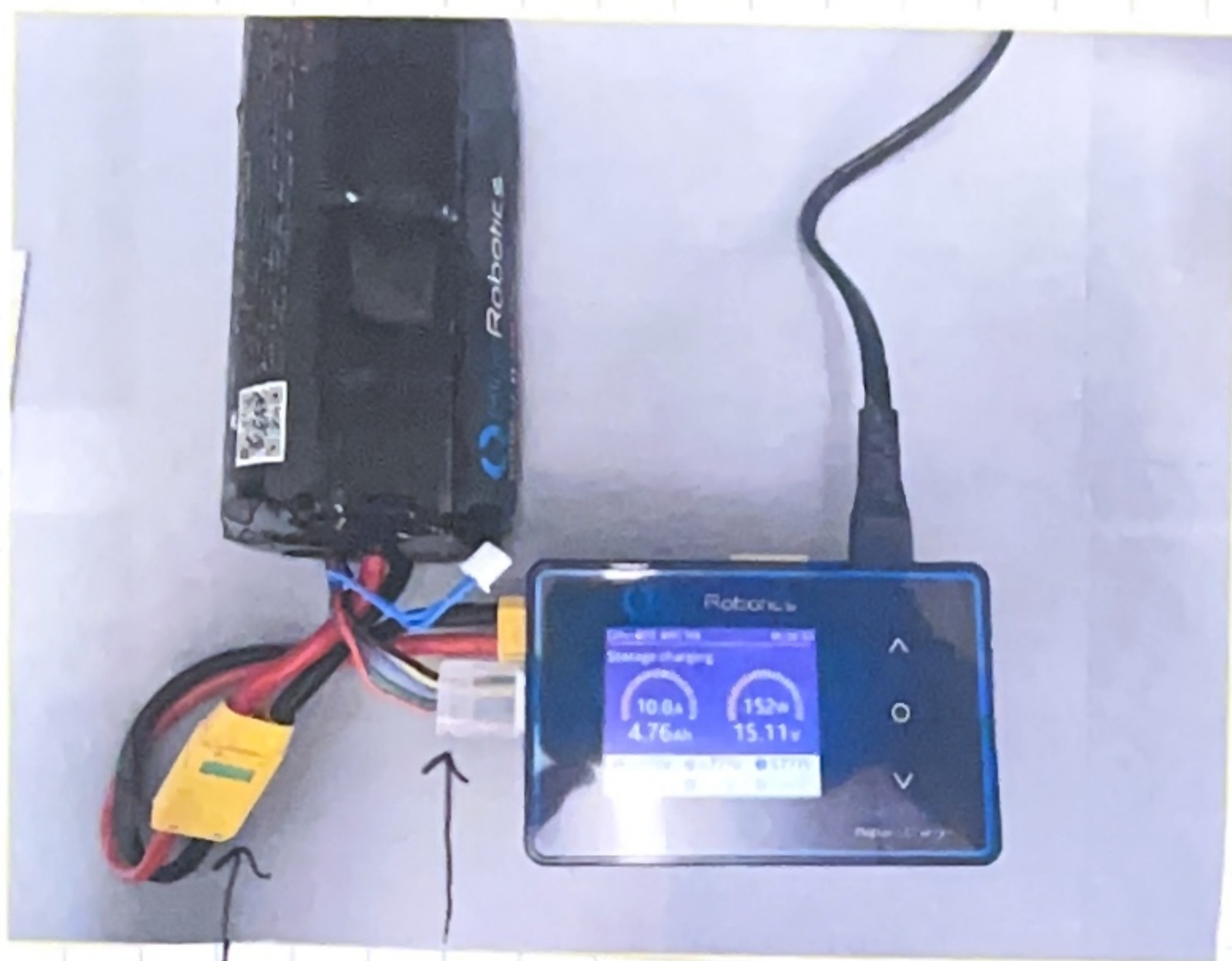


Figure 1

The lithium battery
plugged into the charger.

XT90 to XT60 adapter for charging.
Cell balancer cable.

To charge, set the charger to the charging mode.
To store, set the charger to the store mode.

IMMEDIATELY AFTER USE, ~~DO~~ CHARGE
WITH STORAGE MODE.

If the voltage drops below 3.0V on any cell,
that cell will die.

Typical
~~Maximum~~ Voltage: 14.8V (3.7V per cell)

Maximum Voltage: 16.8V (4.2V per cell)

Minimum Voltage: 12.0V (3.0V per cell)

Make sure the voltage per cell NEVER drops
below 3.0V per cell.



H6 PRO

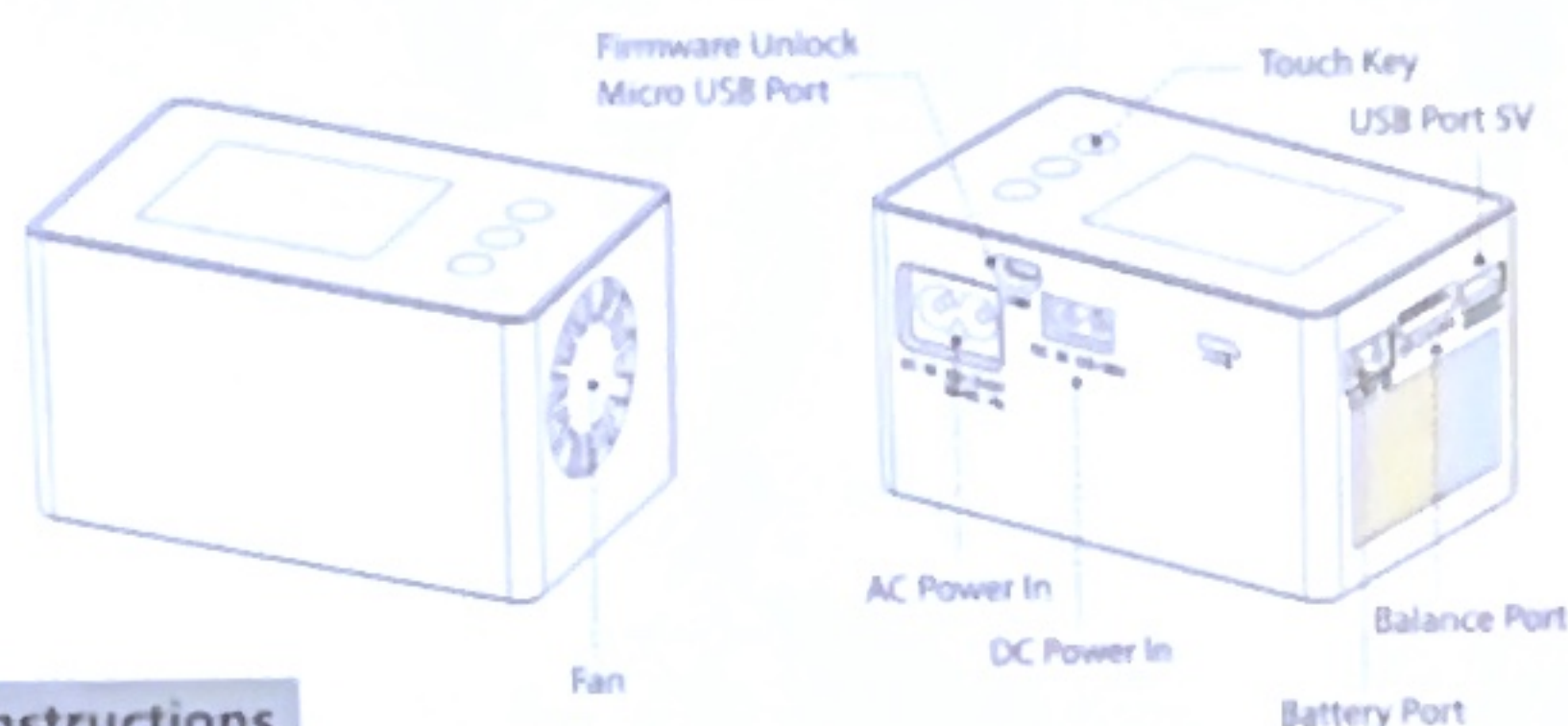
BATTERY-CHARGER-H6PRO-R1

In its default configuration, this charger is intended for use ONLY with Blue Robotics Lithium-ion and Lithium-polymer 4S (14.8V) and 6S (22.2V) batteries, or similar 4S, 6S Lipo/LiIon batteries with a capacity of AT LEAST 10Ah.

NOTE: To unlock full capability including adjustable current, chemistry, voltage, and auxiliary functions, please go to bluerobotics.com/learn/h6pro/

Default Specifications

Input Voltage	AC 100-240V / DC 6.5-30V	Charge Current	10A
Charge Power	DC 700W @ input voltage > 24V	Balance Current	2000mA
	AC 200W	Discharge Current	0.1-2A
Discharge Power	Internal Discharge: 30W (Balance port 10W)	USB Output	5V / 2.1A
Battery Type	LiPo / LiIon 4S, 6S	Storage Temperature	-20-60°C
Net Weight	410g	Operating Temperature	0-40°C
Dimensions	108mmx67mmx60mm	Screen Size	2.4" IPS 320x240 260000 colors



Instructions

1. Connect AC or DC power and wait for bootup to complete.
2. Connect the main battery and balance cables to the charger.
3. Press the select key (circle) and select task "Charge" or "Storage" and cell count "4S (16.8V)" or "6S (22.2V)" with arrow touch keys.
 - "Charge" will fully charge the battery to 4.20 volts per cell (4S 16.8V or 6S 25.2V total) for immediate use.
 - "Storage" will charge or discharge the battery to 3.80V per cell (4S 15.2V or 6S 22.8V total), ideal for storage and transport.
 - Storage charging the battery is strongly recommended at any time the will be stored and not used for more than a day (Lithium ion) or several hours (Lithium-polymer). This will ensure the longest possible battery cycle life.
4. Select "Start Task" and wait for the task to complete.
5. Charger will automatically stop and beep upon task completion.



WARNING!



FIRE HAZARD!

NEVER USE CHARGER UNSUPERVISED!

- Batteries pose a SEVERE risk of fire if not properly handled.
- Read entire operation manual before using charger.
- This unit may emit heat during use.
- Only operate this device in a cool ventilated area away from flammable objects.
- Failure to observe safety procedures may cause damages to property or injury.

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