Lithium Polymer Battery Safety
Safety

• Never use our LiPoly batteries other than with Powerboost board!
• Battery plugs into boards JST connector
• Only charge battery through power boost board (ideally when you’ve removed it from breadboard)
LiPoly Video (Shorting Battery)

• Directly connecting a wire to a Raw Li-Poly Battery is very dangerous. Do not do this:
Lithium Polymer Batteries: Safety Rules for 6.S08

SAFETY NOTICE: Never leave a battery unattended while charging. Only charge the battery when it is in your 6.S08 fire-retardant pouch. When not using, disconnect the battery, return to the cardboard box it came in (for structural protection) and store in fire-retardant bag.

SAFETY NOTICE: Never directly connect your battery to anything but the PowerBoost 1000C JST socket. No wires, etc…

SAFETY NOTICE: If your battery is bulging, hot, or damaged, don’t use it! Put it in your fire-retardant bag and contact staff.

SAFETY NOTICE: DO NOT CRUSH OR DROP YOUR 6.S08 KIT WITH THE BATTERY. DO NOT SIT ON YOUR 6.S08 KIT. DO NOT SHOVE IT AT THE BOTTOM OF YOUR BOOKBAG UNDERNEATH BOOKS.

MAINTENANCE NOTICE: Battery connectors are fragile. Insert and remove carefully. If yours breaks, tape the bare wires to prevent shorts and bring it to lab for assistance in fixing or replacing it.

Adapted from 2.007
More, (some repeated) general warnings and advice

- Do NOT immerse the battery in water or other liquids. Keep or store the battery in a cool and dry place/environment.
- Do NOT use or store the battery near any source of heat.
- Use a charger that is clearly specified to be compatible for charging the battery and has appropriate charging protection (voltage, current, temperature).
- Do NOT install the battery in reverse polarity.
- Do NOT connect the battery to an electrical outlet or other incompatible power source.
- Do NOT discard the battery in fire.
- Do NOT short circuit the battery. Do NOT connect the positive and negative terminals to each other with metallic object(s) or other conductive material(s).
- Do NOT transport or store the battery together with metal objects, such as hairpins, necklaces, or any other conductive object or material.
- Do NOT strike, crush, puncture, disassemble, or throw the battery.
- Do NOT directly solder the battery or battery terminals.
- Do NOT pierce the battery.
- Lithium batteries should be used only with proper voltage, current, and temperature protection circuitry and protection.
- Do NOT use or leave the battery in a high temperature environment (for example, under direct sunlight or in a vehicle in hot weather). Failure to take this precaution can lead to overheating of battery and/or fire or explosion. Also, performance of battery will degrade and lifetime will be reduced.
- Do NOT use battery in a location where there is high static-electricity or magnetic fields, otherwise safety devices may be damaged which cannot be visible.
- If the battery leaks and the electrolyte get into the eyes, do NOT rub eyes. Instead, rinse and wash eyes with clean water, and immediately seek medical attention.
- If the battery gives off an odor, generates heat, becomes discolored or deformed, or in any way appears abnormal during use, recharging, or storage, immediately remove it from the device or battery charger and stop using it.
- In case the battery terminals are dirty, clean the terminals with a dry cloth before use. Otherwise, poor performance may occur due to the poor connection with the instrument or device.
- Be aware that discarded batteries may cause fire or explosion. Therefore, apply a non-conductive tape to the battery terminals to insulate them before discarding.

*from Adafruit*
Only interact with the battery through the PowerBoost Board!!!

- Prevents over-charging
- Prevents shorting
- Prevents over-discharging

Physical Damage is other risk:

- Never stab/bend/juggle your battery
- Do not bend the yellow top of the battery
- Respect and keep battery safe in the fire-retardant bag and disconnected when not in use
- Do not crush your setup
Stabbing Battery

- Demonstrating risk of physical damage (DO NOT DO THIS):