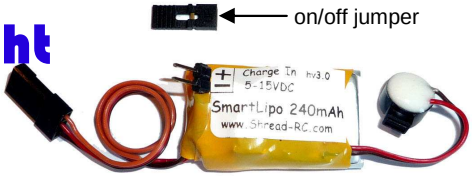
Hyperflight

Shread-RC
SmartLipo Series



Model	240	450	650
Weight	11.4 g	16.5 g	20.3 g
Output voltage	5.0V	5.0V	5.0V
Max cont current	0.6A	1.0A	1.0A
Max 10s current	1.0A	1.5A	1.5A

The SmartLipo series is a lightweight compact device for powering small RC gliders and discus launched gliders. It has the following parts integrated into a single device:

- 1 cell 240 / 450 / 650 mAh LiPo battery.
- Low noise, high performance switching 5V regulator, to increase the output voltage to 5V and provide a stable supply for the RC.
- LiPo charger with suitable charge rate preset.
- Microprocessor based battery condition monitor, ensuring the battery is not over discharged.
- On / Off switch and charging port.

Operating Instructions

To switch on - remove jumper from the *Charge In* port to obtain 5V DC on the RC output cable.

To switch off - replace the jumper on the *Charge In* port. The RC will no longer receive any power.

To charge - connect 5-15 V DC to the *Charge In* port and the SmartLipo's built-in charger will charge the LiPo cell at the correct rate. The sticker is marked **+** and **–** to indicate the power lead polarity. Put the red wire on the **+** side. If you plug it in the wrong way no damage will occur, but the battery won't be charged. We recommend a 5V to 15V battery is connected, eg a 2S-4S LiPo, a 12V lead acid, or a NiMH receiver battery. **Do not use a SmartBEC, a charger, or mains transformer as the power source, as the unsteady voltage will blow the electronics.**

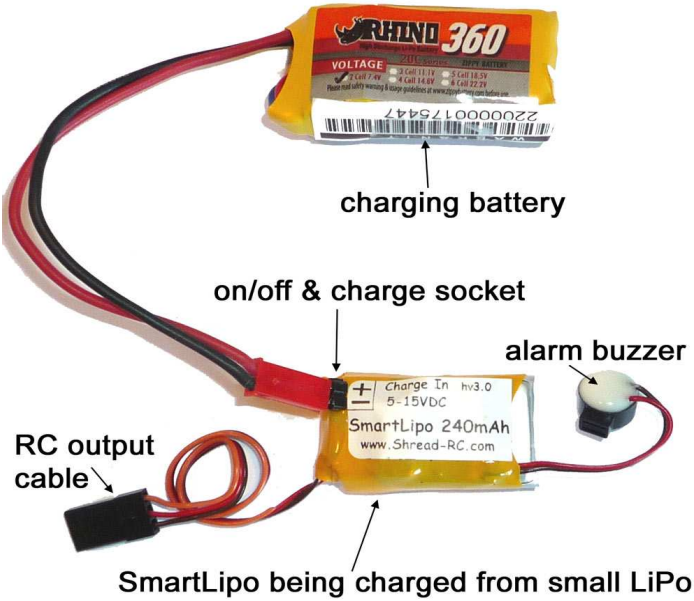
To find the battery's current charge state – remove jumper from the *Charge In* port and the built-in buzzer will beep the LiPo's voltage - it beeps once for every 0.1V above 3.5V, so four beeps indicates 3.9V. If there are no beeps stop flying!

To warn you to stop flying - the buzzer outputs a trill sound when the LiPo voltage goes below 3.5V.

To find the current charge progress - the buzzer outputs regular short ticks during charging. This changes to louder chirp when the battery is fully charged.

What is that beep? The SmartLipo beeps every 30 seconds to tell you power is on, so you don't forget to switch the R/C off after the flight.

Why is smoke coming out? Don't attempt to charge it from the RC output cable. This will destroy the electronics.



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Benefits

- Light weight and low bulk.
- Convenient built-in switch simplifies installation.
- Low battery warning saves model.
- Very low battery powerdown saves LiPo - the device automatically powers off when the voltage drops to 2.85V so the battery is saved if the RC is left on.
- Integrated charger - easy charging from many suitable power sources.
- Use of a 1S LiPo battery eliminates any requirement to balance the battery's cells.
- The highly efficient HF switching voltage booster maximises flying time and eliminates RF noise.

Service

- Guaranteed for 3 months from date of supply.
- Misuse and incorrect charging is not covered.
- If you experience any problems with your SmartLipo please contact us before returning the unit.

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