



### Thank you for choosing our product!

SmartLipo battery is a highly integrated device for powering your RC model. Thanks to integrated booster, switching charge circuit and battery condition monitor unit now you can stop to use many external devices for your model receiver batteries operation!

SmartLipo have single two-pin port used for connecting to charge power supply (reverse polarity protected), and for turning ON/OFF.

To **Power ON** your SmartLipo remove jumper from “ON/OFF” port. If the SmartLipo is charged you will hear 0-7 beeps\* (means 3.5-4.2V on cell). For SmartLipo v2 and newer you also will have red led turned on. 6-7 beeps\* – completely charged SmartLipo. If you here 0 beeps\* – you need to charge your SmartLipo before use.

While SmartLipo is **turned ON** it makes regular beeps to show this state (to prevent model packing with powered receiver). If the cell voltage drops lower than 3.5V internal voltage - this beep will be changed to trills (“Ti-ta-Ti”). If the cell voltage drops lower than 2.9V for 3 seconds SmartLipo will be turned OFF automatically. Time of cell discharging between 3.5V and 2.9V depends on your model total power consumption, typically it is about 1-2 minutes but this value may be lower. We recommend to charge SmartLipo between flights and check the voltage on the cell using jumper place/remove cycle time to time. WE DO NOT RECOMMEND TO FLY TILL TRILLS OR FULL DISCHARGE. IF YOU REMOVE JUMPER AND HEAR ONLY 1 BEEP - STOP FLYING AND CHARGE YOU

To **Power OFF** - place jumper to the “ON/OFF” port.

To **Charge** you SmartLipo apply 5-15V power source to **Charge In** port in appropriated polarity. Power source need to be capable to handle at least doubled charge current (for 240mah – 0.5A). Ideal power source is another battery (e.g Car battery) or any other stabilized power supply. While charging you will hear short “tick” sounds, as soon as charging will be done, you will hear “beeps” instead\*\*. When the cell is completely charged SmartLipo will be switched into trickle charge mode. Internal condition monitor will prevent battery overcharging. Typical full charge time is about 1.5 hours. We do not recommend to use exactly 5V power source for charging because possible voltage drops.

\* SmartLipo before version V2 on it's label show voltage at power on with following sequence - “N long beeps + two short beeps”. “Cell Voltage”=3.5V+n\*0.1V. Two short beeps are used to show the end of Voltage “beeping”.

\*\*Some SmartLipo's with version V2 do not have charge completing sound changes. If you have one of them- simply remove charge plug to check charge state time to time. If you have 7 beeps left your SmartLipo for addition 0.5h and disconnect it from the power.

