

# Lithium Ion Battery – 3.7v 2000mAh

PRODUCT ID: 2011



## DESCRIPTION

Lithium ion polymer (also known as 'lipo' or 'lipoly') batteries are thin, light and powerful. The output ranges from 4.2V when completely charged to 3.7V. This battery has a capacity of 2000mAh. If you need a larger (or smaller!) battery, we have a full range of LiPoly batteries

The batteries come pre-attached with a genuine 2-pin JST-PH connector as shown and include the necessary protection circuitry. Because they have a genuine JST connector, not a knock-off, the cable wont snag or get stuck in a matching JST jack, they click in and out smoothly.

The included protection circuitry keeps the battery voltage from going too high (over-charging) or low (over-use) which means that the battery will cut-out when completely dead at 3.0V. It will also protect against output shorts. However, even with this protection **it is very important that you only use a Lilon/LiPoly constant-voltage/constant-current charger to recharge**

them and at a rate of 2A or less (500mA is best). We suggest our Micro Lipo charger, which has a 100mA default rate. You can also set the Micro Lipo to 500mA rate for a faster charge.

Like most lipos, the batteries we sell do not have thermistors built in. This is why we suggest charging at 1 C or even less – 100 to 500mA is a good rate, and available from any USB port if using a USB-powered charger

**Additional safety notes:** Do not use a NiMH/NiCad/lead-acid charger! Also, do not abuse these batteries, do not short, bend, crush or puncture. **Never charge or use unattended. Always inspect batteries and surrounding circuitry constantly for any damage, loose wiring, or possibility of short circuits.** As with all Lithium ion polymer batteries and with any power source – they should be used by experts who are comfortable working with power supplies

## TECHNICAL DETAILS

- Dimensions: 60mm x 36mm x 7mm / 2.4" x 1.4" x 0.3"
- Weight: 34g
- Nominal Capacity: 2000mAh  $\pm$ 2%
- Nominal Voltage: 3.7V
- Standard Charge Current:  $\sim$ 0.2C / 0.5A
- Charge Cut-Off Voltage: 4.2V
- Standard Discharge Current:  $\sim$ 0.2C / 0.5A
- Battery Datasheet
- MSDS Report



