دیتا شیت

Description

This tiny module is perfect for charging single cell 3.7V 1 Ah or higher LiPo cells such as 16550s that don't have their own protection circuit.

Based around the TP4056 charger IC and DW01 battery protection IC this module will offer 1A charge current then cut off when finished.

Futhermore when the battery voltage drops below 2.4V the protection IC will switch the load off to protect the cell from running at too low of a voltage - and also protects against over-voltage and reverse polarity connection (it will usually destroy itself instead of the battery) however please check you have it connected correctly the first time.

Using the module

- Connect micro USB cable for power, or 5V DC to pads marked IN+ and IN- on left-hand side of the module
- Connect cell to charge to B+/B- pads on right-hand side of module
- A load (something for the battery to power) can be connected to the OUT+/OUT- pads on the right-hand side
- Important! Disconnect load when charging
- The red LED indicates chaging in progress, green LED indicates charging has finished.
- Never charge your battery at a rate greater than 1C.

Specifications

- Input voltage - 5V via microUSB or solder pads on left-hand side of module
- Full charge voltage - 4.2V
- Charging current - 1A by default. However you can change this by changing the 1k2 resistor next to the "IN-" pad the bottom-left of the board. See the Rprog table on page three of the TP4056 data sheet for different values and matching charging currents