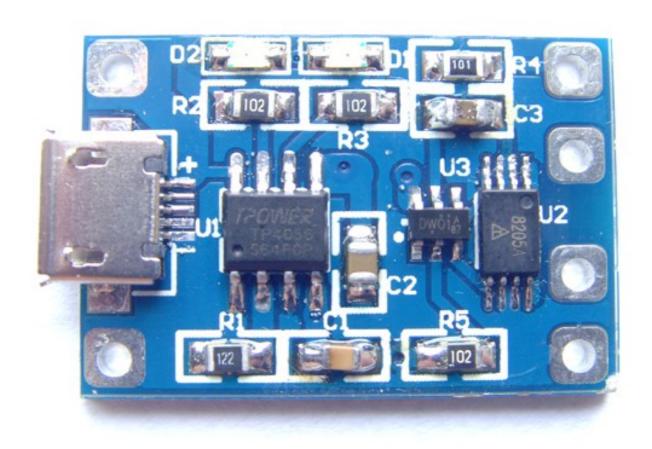


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TP4056 lithium battery charging board over-current protection 18650 micro USB



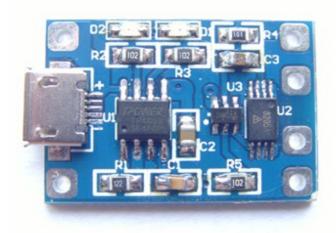


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Function Description



LC TP4056 Lithium battery charge and discharge protection module equipped with TP4056 chip, a maximum charge current up to 1.2A, and this module is equipped with a charge-discharge protection device for the voltage of 3.6V,3.7V, such as 18650, polymer etc., single or multiple parallel can also be used.

Product Features

- onboard TP4056 lithium battery charging management chip;
- on-board micro USB, can connect with most smartphone charger directly as an input to the lithium battery;
- reserved IN + and IN- input port, convenient to user's DIY;
- on-board charging status indicator;
- 5. support the charge and discharge current protection;
- 6. the chip with constant current, full automatic stop;
- supports simultaneous charging and discharging;

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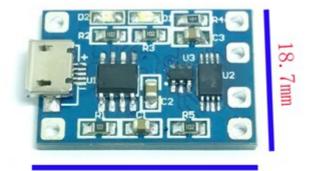
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Performance Parameters

Input Voltage	DC 5V
Charging cut-off voltage	DC 4.2V±1%
maximum output current	1.2A
Charging method	Linear Charge
Working temperature	-20°C-85°C

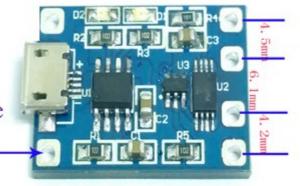
The hardware size



26.3mm

Note: 6 pads are the same size, the

hole diameter is 1.54 mm Φ 1.54mm.



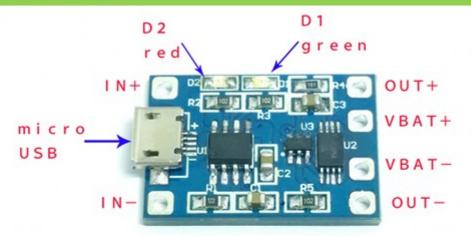


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Basic Features



- •Inputs can via USB or IN+, IN- to input;IN+ connected positive input voltage,IN- connected to the negative;

 D1 is full indication Green LED, that only take input,output without any connection or the lithium battery is fully charged,then D1 light;
- OUT +, OUT- connected load, the output interface does not support the charge and discharge over-current protection, the remaining functions and VBAT +, VBAT- consistent interface functions;
- •VBAT +, VBAT- take lithium positive and negative charge,

 VBAT + connected lithium battery positive, VBAT- then negative,

 charging red LED D1 light, green LED D2 lights off, the lithium

 battery positive and negative poles can not be reversed!



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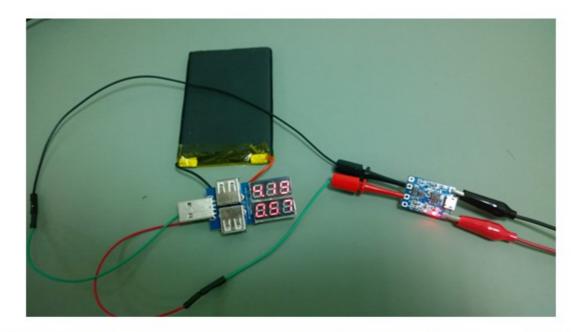
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Directions for use

input through micro USB or IN +, IN- access 5V, the output without any wiring, the green always light.

1. Charge for lithium battery

Lithium battery positive and negative, respectively access VBAT + and VBAT-, not reversed; as follow picture: access 4.8V to 20000MAH polymer lithium battery for charging, upcoming full status, voltage display 4.19V and 570mA charging current



Noted that the charging current is preferably a battery capacity 0.37C, 0.37 times of the capacity such as 1000mAH capacity,400 is ok. Via USB power supply, input voltage 5V, 660mA charging current and 4.19Vcharging voltage



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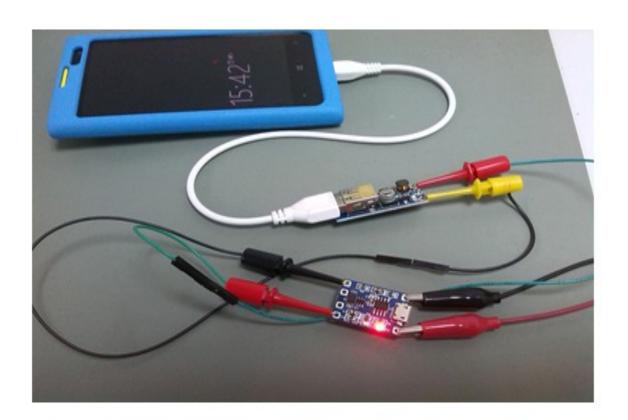
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2.OUT connect to load

OUT port can be directly connected to the load, when the load is connected, via VBAT charging port is invalid.

For convenience, the OUT terminal through a small boost module (0.9V-5V input, 5V output) 5V boost to charge the phone. As shown, the OUT + connect to positive of small boost module, OUT- then negative, phone connect with USB female.

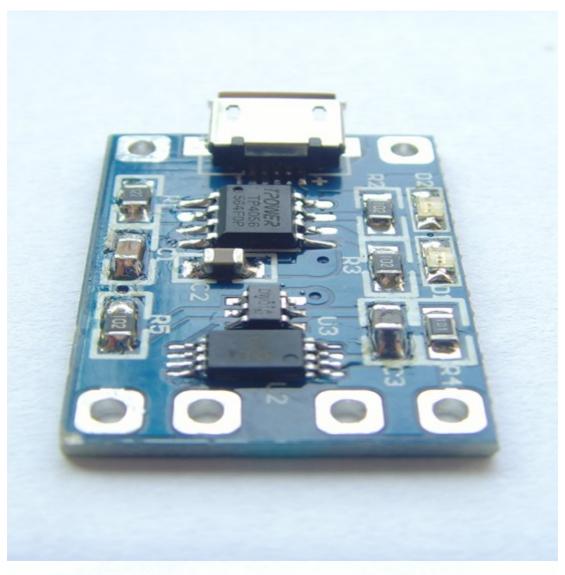


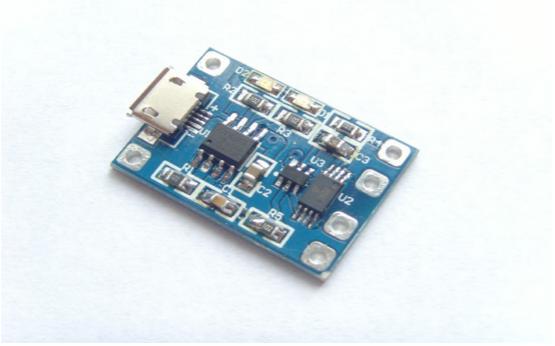


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