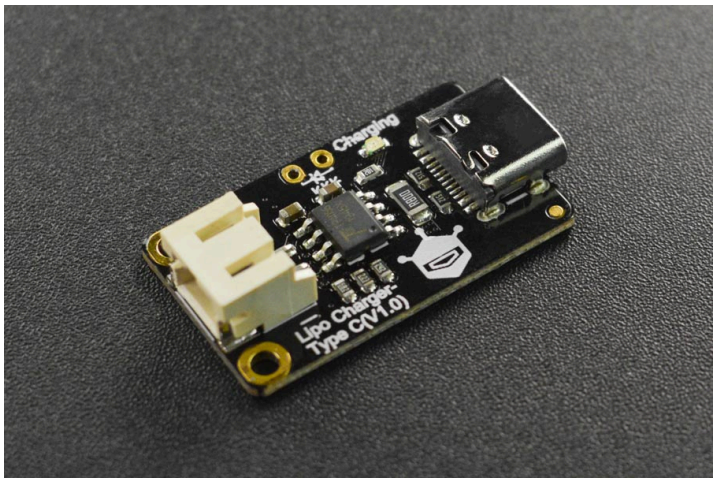
SKU:DFR0668 (https://www.dfrobot.com/product-2068.html)



(https://www.dfrobot.com/product-2068.html)

Introduction

This is a Type-C Lipo charger designed for single-cell 3.7V lithium battery. The compact size makes it easy to integrate into your applications. The charger adopts TP4056X lithium battery charging IC, which guarantees you quick and safe charging, and also you can easily switch between 3 output currents (the default output current is 50mA) by selecting different bonding pads on the back. The thermal feedback inside the TP4056X can automatically adjust the charging current to limit the chip temperature under high power operation or high ambient temperature conditions. Plug this charger into power source via its Type-C port, the LED on the charger will flash when no battery is not connected; keep on when charging and go off when the battery is fully charged. So, this LED will consume nothing of your battery. Besides, you can also connect an external indicator, which allows you to easily check the charging status when this module is integrated into your projects.
There are 3 charging stages provided: trickle charge, constant current charge and

constant voltage charge, which guarantee the safety and save the charging time.

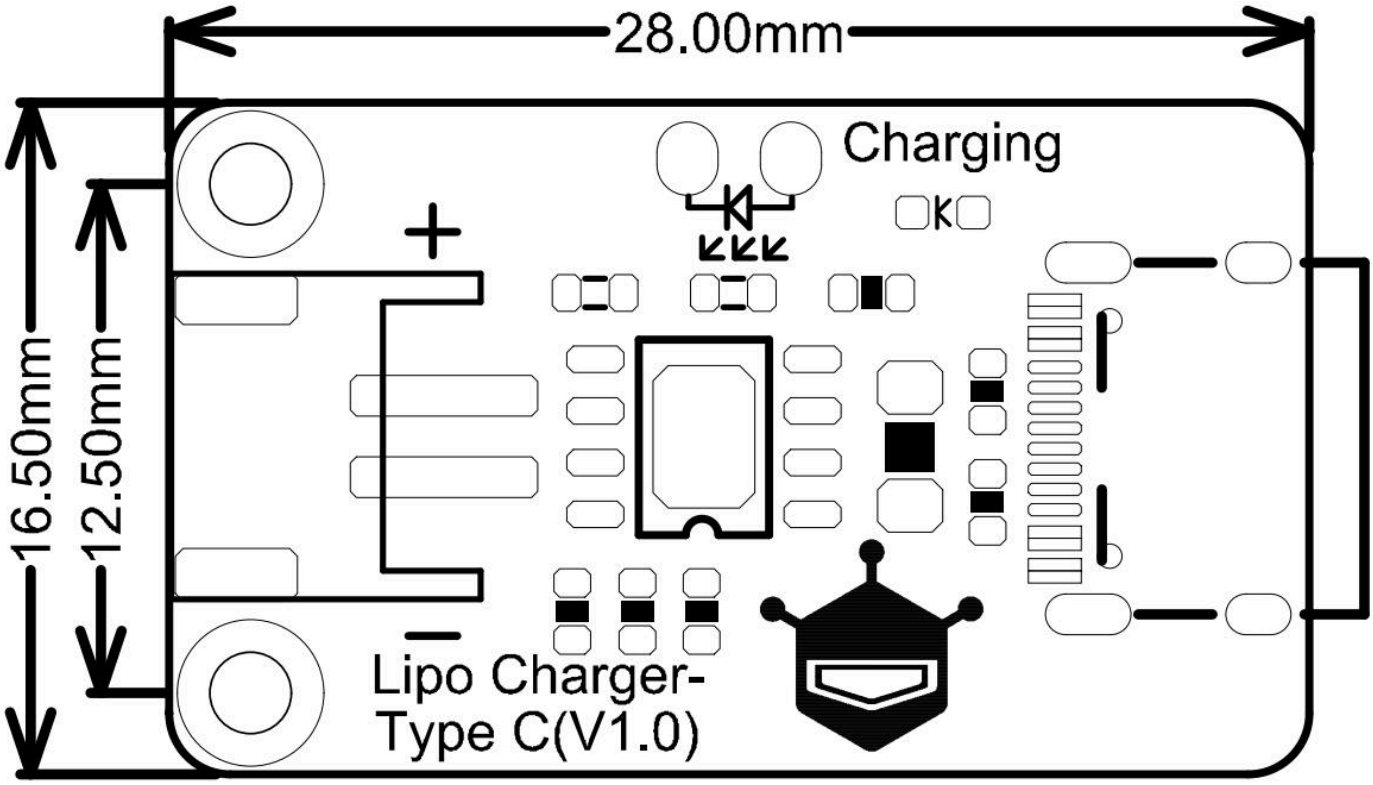
⚠ **NOTE**: Low current mode can be used to charge a large capacity battery but high current mode cannot be used to charge a small capacity battery. The battery may explode if the charging current is too high.

Battery Capacity	Recommended Current
100-400mAh	50mA
400-1000mAh	200mA
1000mAh above	500mA

Features

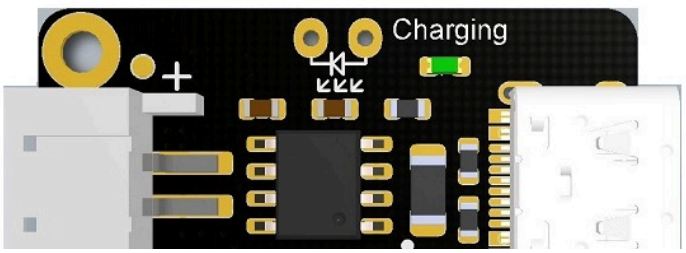
- Multiple current output modes (50/200/500mA)
- Small size
- External indicator available
- Safe and quick charging

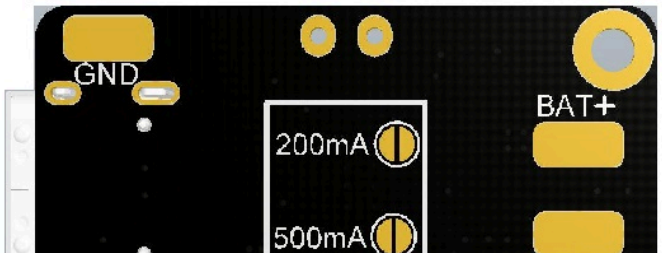
Specification



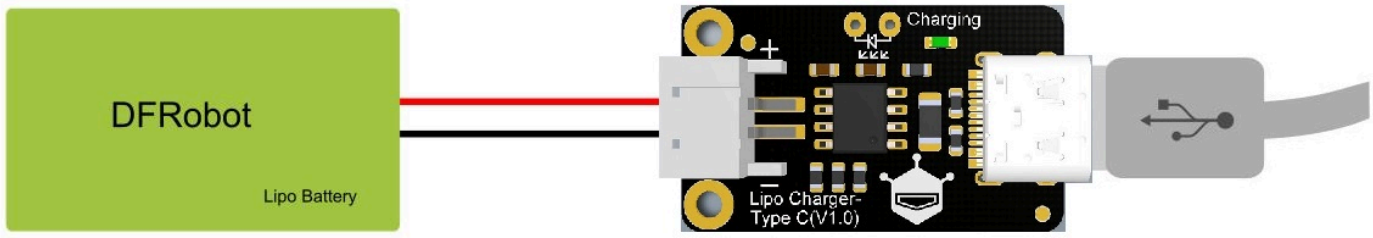
- Input Voltage: 5V
- Charging Current: 50mA, 200mA, 500mA
- Limited Charging Voltage: 4.2V±1%
- Working Environment: -40℃~85℃
- Product size: 16.5 x 28mm/0.65x1.10"

Pinout





Tutorial



FAQ

> For any questions, advice or cool ideas to share, please visit the **DFRobot Forum** (https://www.dfrobot.com/forum)

More Documents

- Schematic diagram (https://dfimg.dfrobot.com/nobody/wiki/df3bcb5972db9ef9bfdbeb707da07f32.pdf)
- Dimension Diagram (https://dfimg.dfrobot.com/nobody/wiki/b1438a9c4a5fa8bf9e108776e589e377.pdf)