

# DFR0564 USB Charger for 7.4 LiPo Battery

DFR0564

## Product Overview

07-13-2022

For the most up-to-date information, visit [www.mouser.com](http://www.mouser.com) or the supplier's website.

## Description

DFRobot DFR0564 USB Charger for 7.4V LiPo Battery is an efficient and compact device that can charge the lithium battery of 7.4V up to 1A. This USB charger features a micro-USB interface light-weight which can be used for outdoor applications. This DFR0564 USB charger can also be embedded in a lithium battery-powered project of 7.4V, by adding the function of USB charging to it. This in turn eliminates the use of bulky power adapters and battery swapping needs.



## Features

- High-efficiency boost type USB charger designed for 7.4V Lithium battery
- Charge input and battery port reserved pads for easy modification and measurement
- All-round protection of battery and power supply
- Multifunction LED status indicator
- USB ESD shell

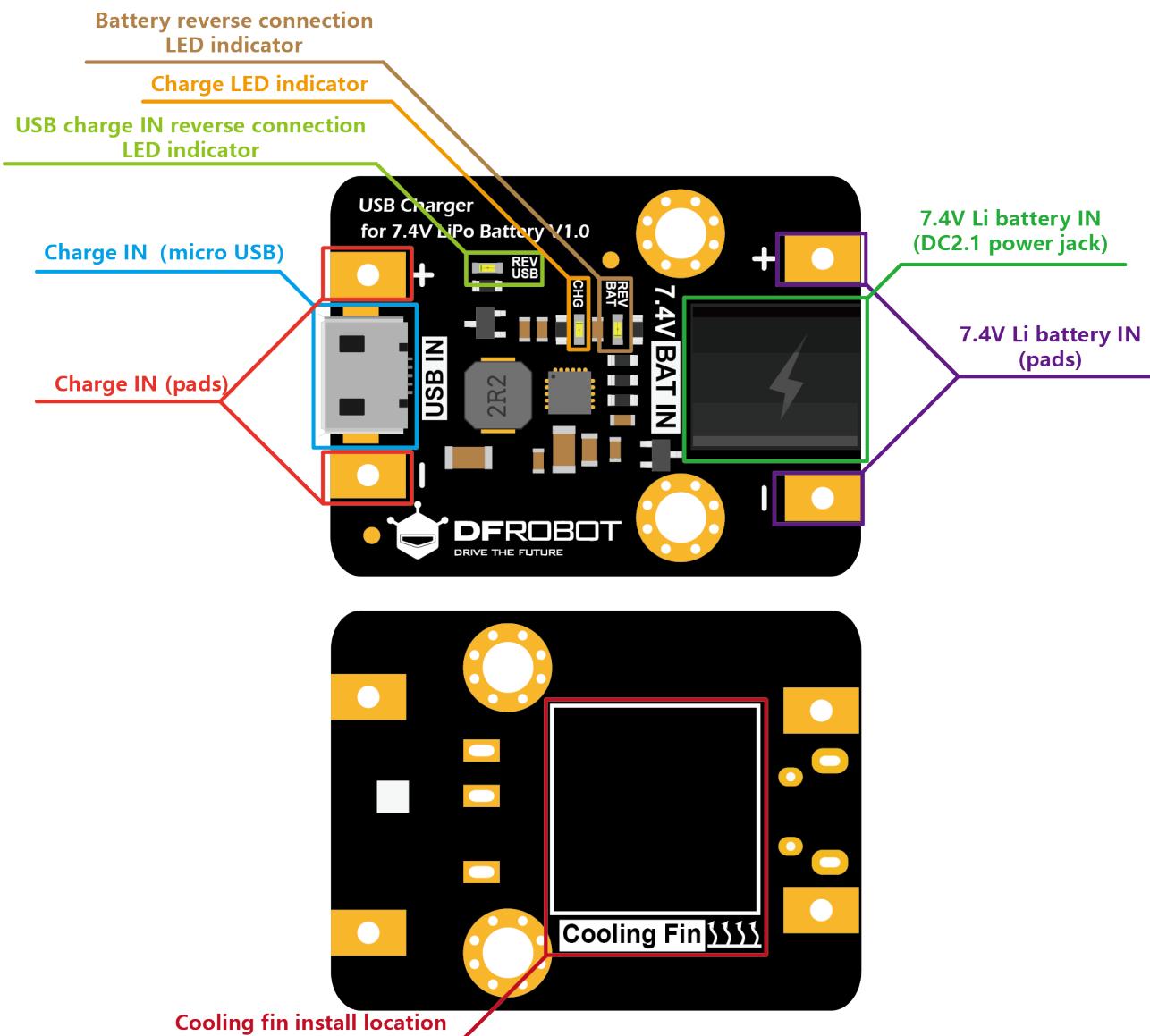
## Specifications

- 3V to 6V charge input voltage (USB IN) range
- 7.4V 2s cells Li-Polymer/Li-ion battery
- 1A maximum charge current
- 8.4V  $\pm 1\%$  charge cutoff voltage
- >90% charge efficiency
- -40°C to 85°C operating temperature range
- 28mm x 37mm product dimensions
- Protections:
  - Battery input (BAT IN):
    - Overcharge protection
    - Reverse connection protection
  - USB IN:
    - Adaptive input current limitation
    - Overheat/reverse connection protection

## Applications

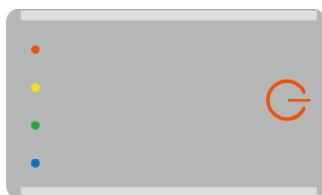
- Robots and motor drivers
- Lithium battery charger

## DFR0564 Board Overview

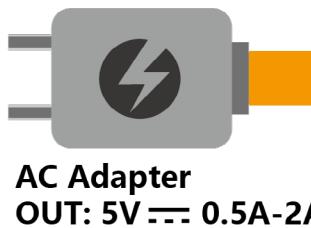


## DFR0564 Application Circuit

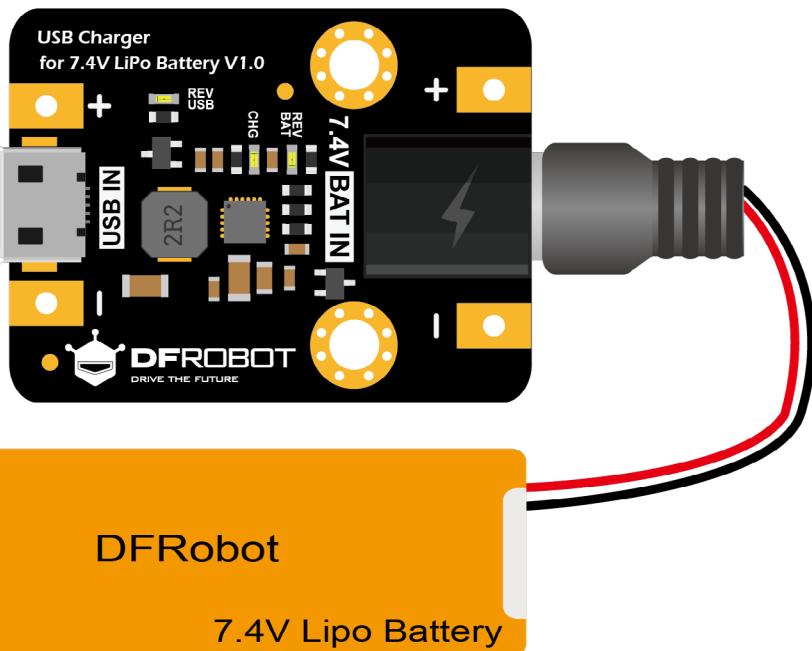
**Power bank**  
OUT: 5V --- 0.5A-2A



**OR**



**AC Adapter**  
OUT: 5V --- 0.5A-2A



## Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-dfr0564-usb-charger/>