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## Treedix 0062

# Treedix Type C USB LiPo Battery Charger Board User Manual

## INTRODUCTION

This manual provides essential information for the safe and effective use of your Treedix Type C USB LiPo Battery Charger Board. This charger board is designed for 3.7V/4.2V single Lithium Ion/Lithium Polymer batteries, featuring a Type C USB input, JST socket for battery connection, and an LED indicator for charging status. Please read these instructions carefully before use.

## SAFETY INFORMATION

- Always ensure correct polarity when connecting batteries. Incorrect connection can damage the charger board and the battery.
- Use only with compatible 3.7V/4.2V Lithium Ion/Lithium Polymer batteries.
- Do not short-circuit the battery terminals or the charger output.
- Operate in a dry environment, away from moisture and extreme temperatures.
- Keep out of reach of children.
- If the board shows signs of damage or overheating, discontinue use immediately.

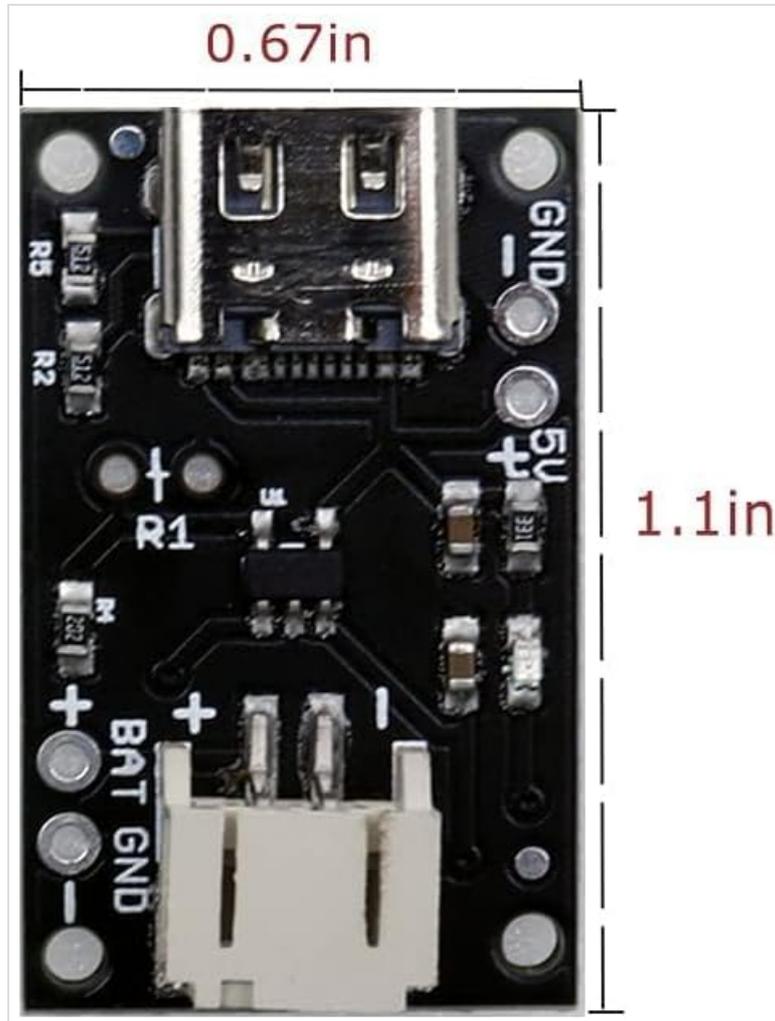
## PACKAGE CONTENTS

- 2 x Treedix Type C USB LiPo Battery Charger Boards
- 2 x JST Connection Cables

## SPECIFICATIONS

Feature	Value
Input Voltage	DC 5V
Charging Current (Standard)	500mA
Compatible Battery Type	3.7V/4.2V Single Lithium Ion/Lithium Polymer
Charging IC	MCP73831T-2ACI/OT
Input Connector	Type C USB

Feature	Value
Battery Connector	JST Socket
Operating Temperature	-40°C to +85°C
Dimensions	21.5mm x 20.5mm (approx. 0.85in x 0.81in)
Part Number	0062



*This image provides a visual representation of the charger board's dimensions, approximately 0.67 inches by 1.1 inches.*

## SETUP

Follow these steps to set up your Treedix LiPo Battery Charger Board:

1. **Connect the Battery:** Carefully connect your 3.7V/4.2V Lithium Ion/Lithium Polymer battery to the JST socket on the charger board. Ensure the red wire from the battery connector is connected to the positive (+) terminal and the black wire to the negative (-) terminal of the JST socket. Incorrect polarity will damage the board and battery.



*This image illustrates the correct (green checkmark) and incorrect (red cross) ways to connect the JST battery cable to the charger board, emphasizing proper polarity (red to positive, black to negative).*

2. **Connect Power:** Insert a Type C USB cable into the Type C port on the charger board. Connect the other end of the USB cable to a 5V DC power source (e.g., a USB wall adapter, computer USB port).



*This image shows the charger boards with the JST cables connected, demonstrating the physical setup before connecting the Type C power source.*

## OPERATING INSTRUCTIONS

### Charging Process

Once the battery and power source are connected, the charging process begins automatically. The board is

equipped with an MCP73831T-2ACI/OT battery charge controller IC for efficient and safe charging.

## LED Indicator

The charger board features an LED indicator to show the charging status:

- **LED On:** Indicates that the battery is currently charging.
- **LED Off:** Indicates that the battery is fully charged, and the charging process has automatically terminated.



*This image highlights the LED indicator on the charger board, which illuminates when a battery is actively charging.*

## Adjusting Charging Rate

The standard charging rate is 500mA. If a lower charging current is desired to extend battery life or for specific battery requirements, the charging rate can be adjusted. This involves modifying the resistor at position R1 on the board. You can either add resistors in parallel (requiring cutting a trace) or replace the surface-mount resistor with a higher resistance value. This modification should only be performed by experienced users familiar with electronics and soldering.

## MAINTENANCE

- Keep the charger board clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Store the board in a cool, dry place when not in use.
- Avoid exposing the board to static electricity, which can damage electronic components.
- Regularly inspect the connections and cables for any signs of wear or damage.

## TROUBLESHOOTING

- **LED not lighting up / Battery not charging:**
  - Ensure the Type C USB cable is securely connected to both the charger board and the 5V power source.
  - Verify that the power source is active and providing 5V.
  - Check the battery connection to the JST socket for correct polarity and secure fit.
  - Confirm that the battery itself is not deeply discharged or damaged.
- **Slow charging:**
  - Ensure the power source can supply sufficient current (at least 500mA).
  - Check if the charging rate resistor (R1) has been modified for a lower current.

## WARRANTY AND SUPPORT

Specific warranty information for this product is not provided in the product details. For any technical support, questions, or warranty inquiries, please contact Treedix directly through their official support channels or the retailer from whom the product was purchased.

