

# USB-C charging module for Li-Pol and 18650 batteries

Reference: AM6696

EAN13: -

HS code: -



## Product attributes:

## Product features:

Input voltage: 4,5-6,5 V DC

Output voltage: 4.2 V DC

Output current: 1 A

## Product description:

This compact charging module is designed for single-series 3.7V lithium batteries (fully charged 4.2V), such as 18650 or polymer cells. It offers reliable and safe charging with protection against overcharge, overcurrent and underdischarge. Thanks to the USB Type-C connector and high-quality chip, it is an ideal choice for projects powered by Li-Ion batteries.

## Technical specifications

- Input: USB Type-C (5V)
- Designed for: 3.7V Li-Ion/Li-Pol batteries (fully charged 4.2V)
- Charging current: default 1A
- Protections: overcharge, undercharge (2.4V), overcurrent (4A), short circuit, overheating
- Precharge: 100 mA
- Input voltage range: 4.5-6.5V (resistance up to 9V)
- Charging indication: red LED (charging), blue LED (fully charged)
- Operating temperature: -40°C to +80°C
- Dimensions: 16.8 × 12 mm, mounting hole spacing 10 mm, internal 5.2 mm

## Functions and features

- Programmable linear charging current
- Constant current / constant voltage
- Soft start - inrush current limitation
- Battery reverse connection protection
- Low standby power consumption - extends battery life
- Dual status indication output (charging, no battery, error)

## Ideal for

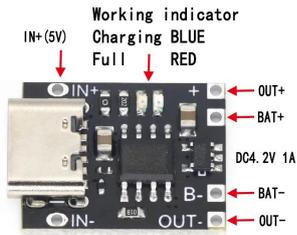
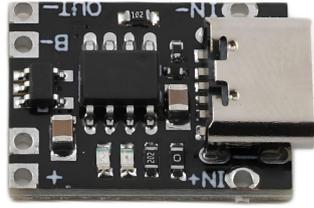
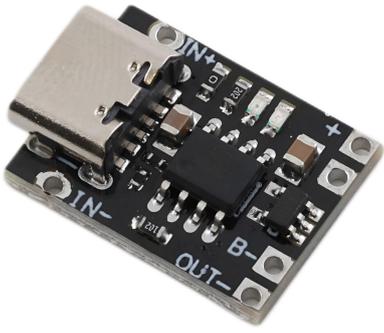
- Charging Li-Ion and Li-Pol cells (e.g. 18650)
- Battery-powered electronics projects
- DIY power banks and small portable sources
- Educational and hobby projects with microcontrollers

## Package contents

- 1 × 3.7V charging module with USB Type-C input

## Why choose this product?

- Compact and simple module with high reliability
- Integrated protections for safe charging and operation
- Easy integration into projects thanks to Type-C connector
- Possibility to adjust the charging current according to the battery capacity
- Visual indication of charging and battery status via LED



With Protection Function:  
Over-voltage protection:6V  
Over-discharge protection:2.4V  
Over-current protection:4A

Model:14\*18mm (L\*W\*H)  
Weight:1g