



Size: 24x18mm

- Output Current: Rated 1A-1.5A
- Output Power: 1 - 50W
- Type: DC/DC Converters
- Input Voltage: 1-5V
- Output Voltage: 5.1-5.2V
- Model Number: Converter
- Weight: 0.03g
- Efficiency:: Up to 96%
- Switching frequency:: 500KHz
- Output ripple:: 30mV (MAX) 20M bandwidth
- Voltage indication:: LED lights with load
- Operating Temperature:: Industrial (-40°c to +85°c)
- Output:: USB Output

Product Description

Feature:

- Module Properties: non-isolated step-up module (BOOST)
- input voltage: 1-5V
- Output voltage: 5.1-5.2 V
- Output Current: Rated 1A-1.5A (single lithium input), the maximum 1.5A (single lithium input)
- Efficiency: Up to 96% (the higher the input voltage, the higher the efficiency)
- Switching frequency: 500KHz
- Output ripple: 30mV (MAX) 20M bandwidth (input 4V output 5.1V 1A)
- Voltage indication: LED lights with load (input voltage less than 2.7V LED indicator off)
- Operating Temperature: Industrial (-40°c to +85°c)
- Full load temperature rise: 30°c
- Quiescent Current: 130uA
- Load regulation: $\pm 1\%$
- Voltage regulation: $\pm 0.5\%$
- Dynamic response speed: 5% 200uS
- Short circuit protection: None (Please use the lithium battery with protection.)
- Input Reverse Polarity Protection: None
- Connection: Welding
- Input: IN + Positive, IN-Negative
- Output: USB Output



Description:

Item Name: Lipo battery charging board

Item NO.: TP4056

Charging Method: linear charge

Charging Current: 1A Adjustable

Charge Accuracy: 1.5%

Input Voltage: 4.5V-5.5V

Full Charge Voltage: 4.2V

Charging Indicator: Blue light lit charge, red light lit full charge

Charging Input Interface: Mini USB

Working Temperature: -10 Degree to +85 Degree

Reverse: NO

Weight: 1.8g

External Dimensions: 25 * 19 * 10mm

Usage: Used for single lipo or multi-section lipo parallel charging, can take power from the USB port.

Current Regulation:

R(K)	I(mA)
30	50
20	70
10	130
5	250
4	300
3	400
2	580
1.66	690
1.5	780
1.33	900
1.2	1000

Features:

Use mature charging chip TP4056, simple peripheral circuits, good protection performance and high charging accuracy.

Fully machinery automated processing, all patch parts manufacturing.

Each module will be tested before shipment, high reliability.

Current can be adjusted, just change the circuit board fixed resistors, can change the output to the 100mA-1000mA, very convenient.

Note:

Input reverse connection has no effect on the chip, but the output (battery end) reverse connection will burn out the chip.

Ampere meter can only be series connected to the 5V input end.

The charging current is best to be 0.37 times of the battery capacity,

Charging wire can't be too thin or too long.

Make sure the board has good contact with the battery.

Chip at work about 60 degrees fever is normal