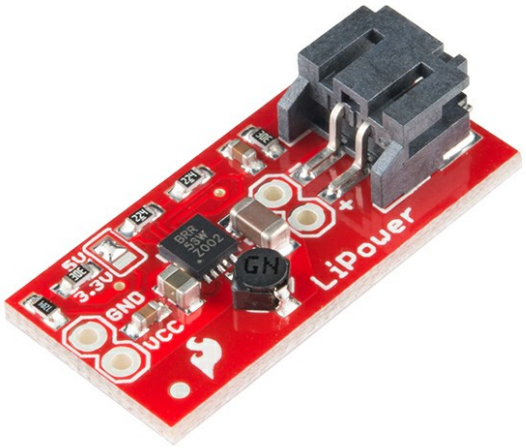

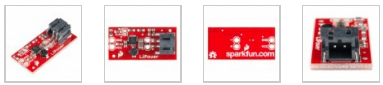

LiPower - Boost Converter

PRT-10255 ROHS✔

★★★★☆ 5

DESCRIPTION FEATURES DOCUMENTS

- Input voltage 0.3-5.5V
- Output voltage 3.3 or 5V
- 5V @ 600mA max
- 3.3V @ 200mA max
- Undervoltage lock out at 2.6V
- Quiescent current, less than 55uA
- LiPo JST connector or 2-pin header power input\
- Inductor: 4.7uH, 1.2A Sumida CDRH2D18
- Over temperature protection

LiPower - Boost Converter Product Help and Resources

SUPPORT TIPS SKILLS NEEDED

Application Circuit and Examples

last updated about 4 months ago

The LiPower - Boost Converter's application circuit is embedded in the Power Cell. The Power Cell's circuit design [https://www.sparkfun.com/tutorials/379] might be of some use. The option to charge a LiPo battery is not available on the LiPower since the charge circuit is not included with the breakout.

How to Modify the Under Voltage Lockout (UVLO)

last updated about 6 months ago

You can find a nice tutorial here that shows how to modify what voltage the LiPower shuts down to protect an attached LiPo battery from over discharge.

COMMENTS 81 REVIEWS ★★★★☆ 5

Customer Reviews

★★★★☆ 4 out of 5

Based on 5 ratings:

5 star 2

1

3 star		2
2 star		0
1 star		0

Currently viewing all customer reviews.

★★★★☆ **Quite resonnable but not ideal**

about 3 years ago by Skye ✔ verified purchaser

This part does what it claims. I am using a few in a project and they provide the regulated voltage and the specified current. I have had one unit fail but this could easily have been my fault.

I do have two negatives. The first is that there is no mouting holes like most of SFE parts. Would four holes for #0 or #2 hardware have added that much space? The second is that the spacing between the input and output voltage pads do not appear to be on 1/10 centers. Makes using this on a breadboard or perfboard dificult.

★★★★★ **Works great**

about 2 years ago by Member #519604 ✔ verified purchaser

I've used 4 or 5 of these boost converters for little projects here and there. They work great. I've even swapped resistors around to make them simulate a fully charged LiPo battery at 4.2v.

Do pay attention to the amperage curves in the datasheet for the boost regulator. In my case, I was making 4.2v (I had swapped resistors) from a 1.5v source, but I had peak amperage requirements that were outside the curve for the regulator. The circuit would brown out. Increasing the input voltage (two AAA cells in series) put me in the sweet spot.

---

0 of **1** found this helpful:

★★★☆☆ **Needs documentation**

about 2 years ago by Member #790851 ✔ verified purchaser

Can't figure which is input and which is output. The device is well built, but comes with no cables and only the identifying printing on the bottom to tell that you have input terminals and output terminals, but which is which, your guess is as good as mine.

> Single T replied on May 11, 2016:
>
> Hi, The input is on the side with the JST connector, there is also a second set of header holes in case you don't have a JST connector on your power source. The output is the side that is opposite the plastic JST connector. The schematic will help you determine this information if you find yourself unsure with other products. Happy hacking!

★★★★★ **As Expected**

about 2 years ago by Member #707606 ✔ verified purchaser

It works pretty well, I am glad to purchase this product.

★★★☆☆ **My soldering skills are terrible**

about 6 months ago by Member #756359 ✔ verified purchaser

I attempted to convert the output to 3.3V, but my cold blunt iron just scraped the pad off the PCB. Done! I didn't even get to power it up.

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For which department?

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Please include your email address if you'd like us to respond to a specific question.

email address

SUBMIT