

STAGE V

Power

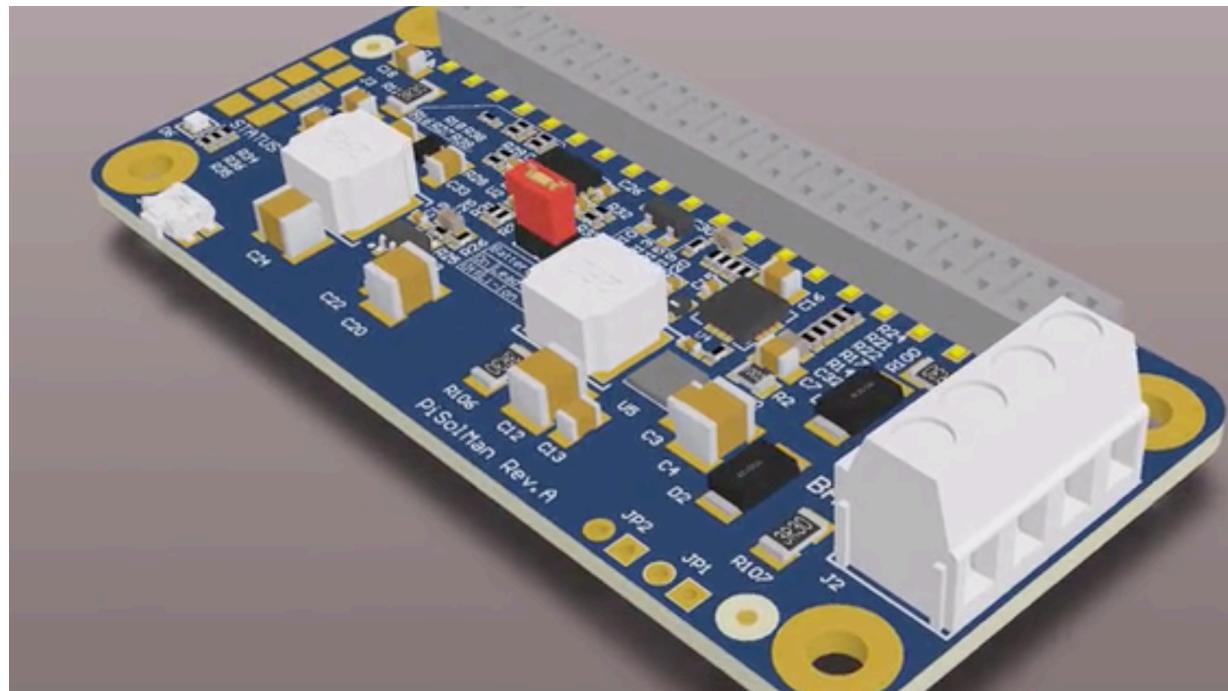
pisolman

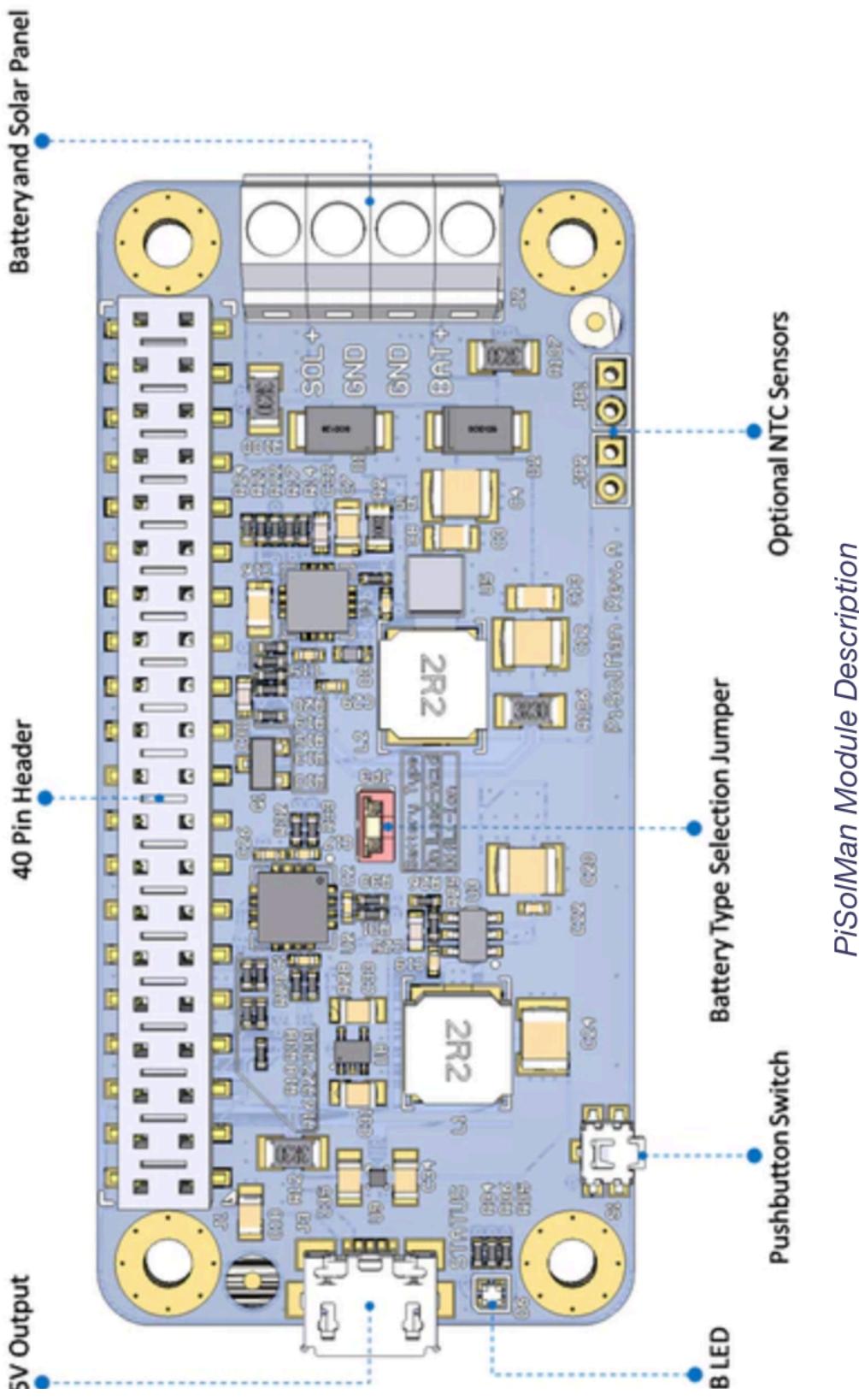
kickstart

PiSolMan is a highly efficient Solar Module for continuously powering Raspberry Pi while monitoring power consumption & battery state.

I2c python

short header





Optional:

RG

Battery → µUSB
USB → µUSB
wall wart → µUSB
Buck/boost → µUS

Buck/Boost UPS, battery chargers, etc.

Safepi

iono pi <https://www.sferalabs.cc>

Comparison [wiki](#)

[mini-box 2.5" footprint ups](#)
[ups comparison chart](#)

[JST-GH to 2.54mm female breakout](#)
hirose [df13 SMT 50x AWG 26 2.2A 30 860ma chassis wiring; much less for power distribution](#)

[2 pin JST-GH china](#)

[df13 spec jst-gh spec jst-ph spec](#)

[Mrobotis.io](#)

[I2c splitter drones](#)

Openups2

openups2 11-24V, 12-24 out, 12v default 18540 linux API planned

nucups Input between 6-38V Generates regulated 12V output voltage

24V boost Vin 12

pololu 50F24

Pridopia power bank 12V, 10V out

Power hat site 4.5-15VDC 2A

Automatically uses and recharges battery just like a UPS

Lithium battery charger and buck/boost regulator

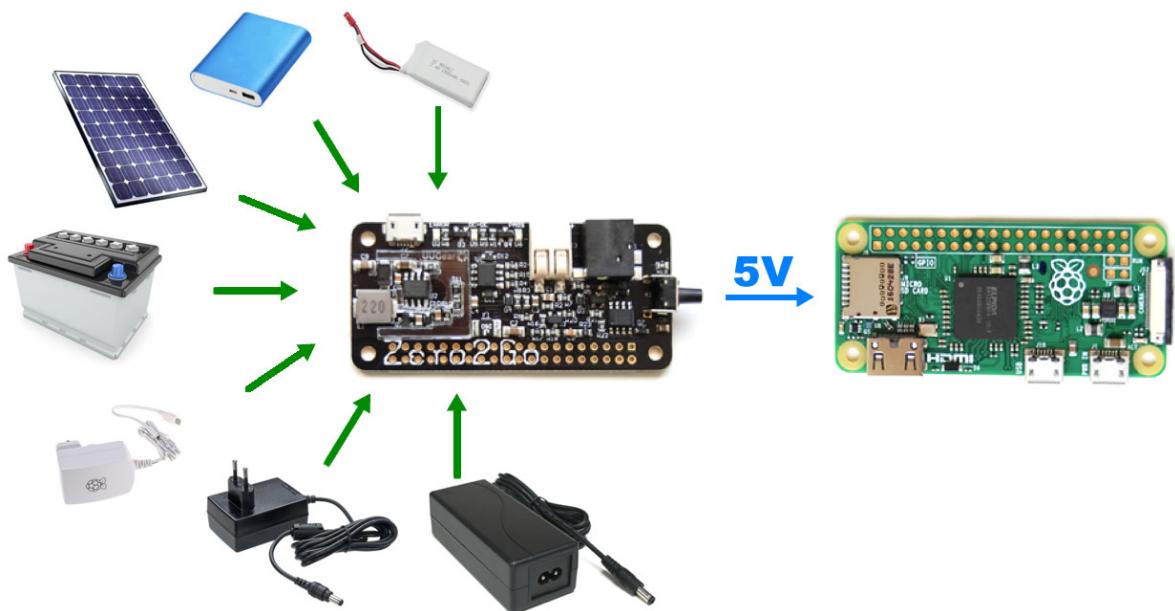
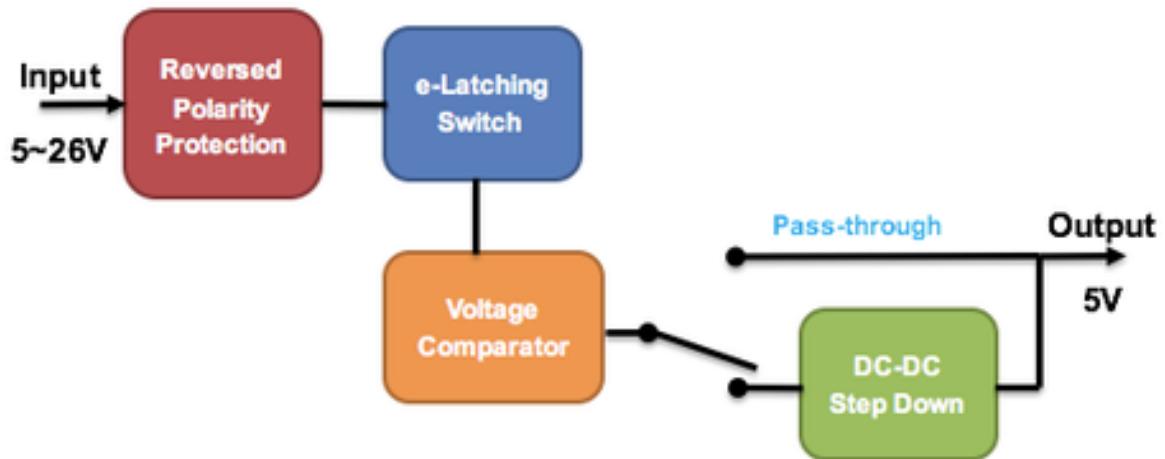
power up on DC power restore, configurable timeout, or an external signal.

real-time clock (RTC) function as well as configurable watchdogs for power-up and power-down of the system

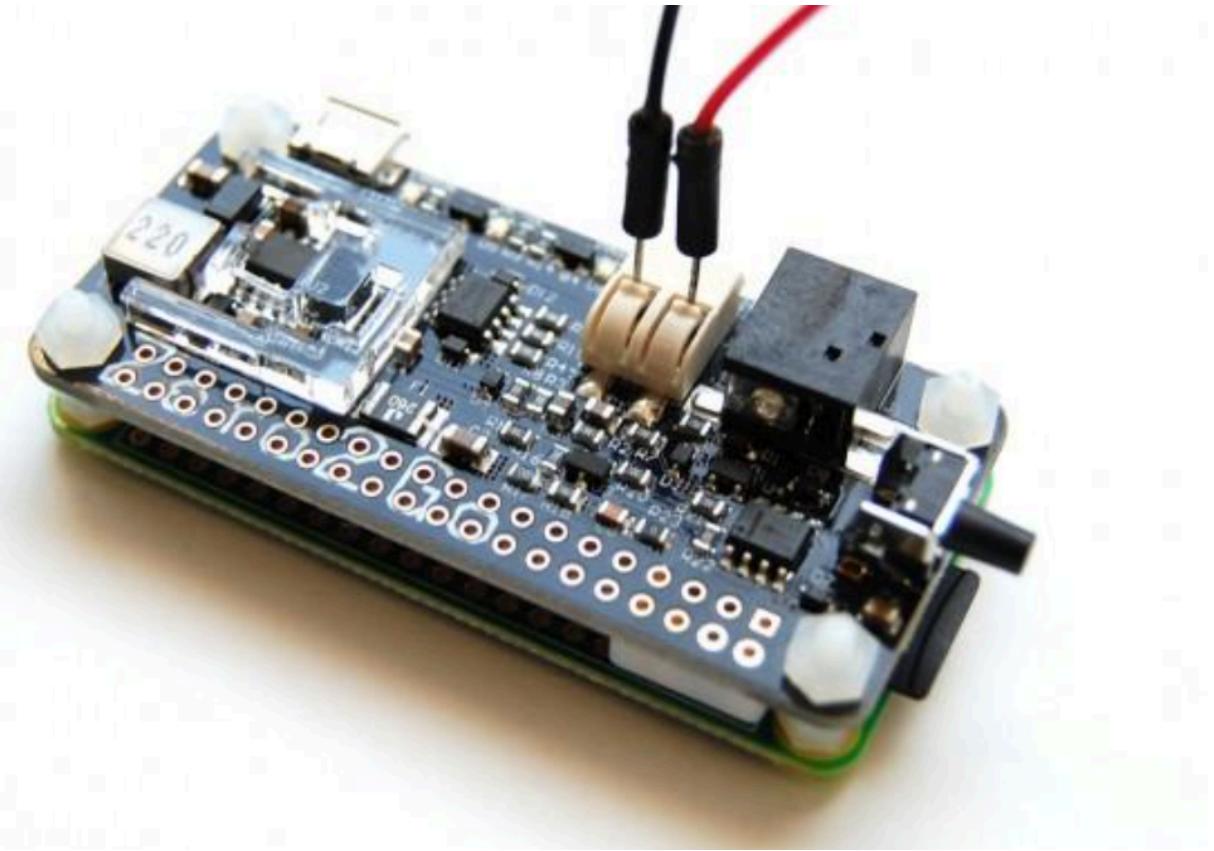
24V to Sanyo fan 620ma

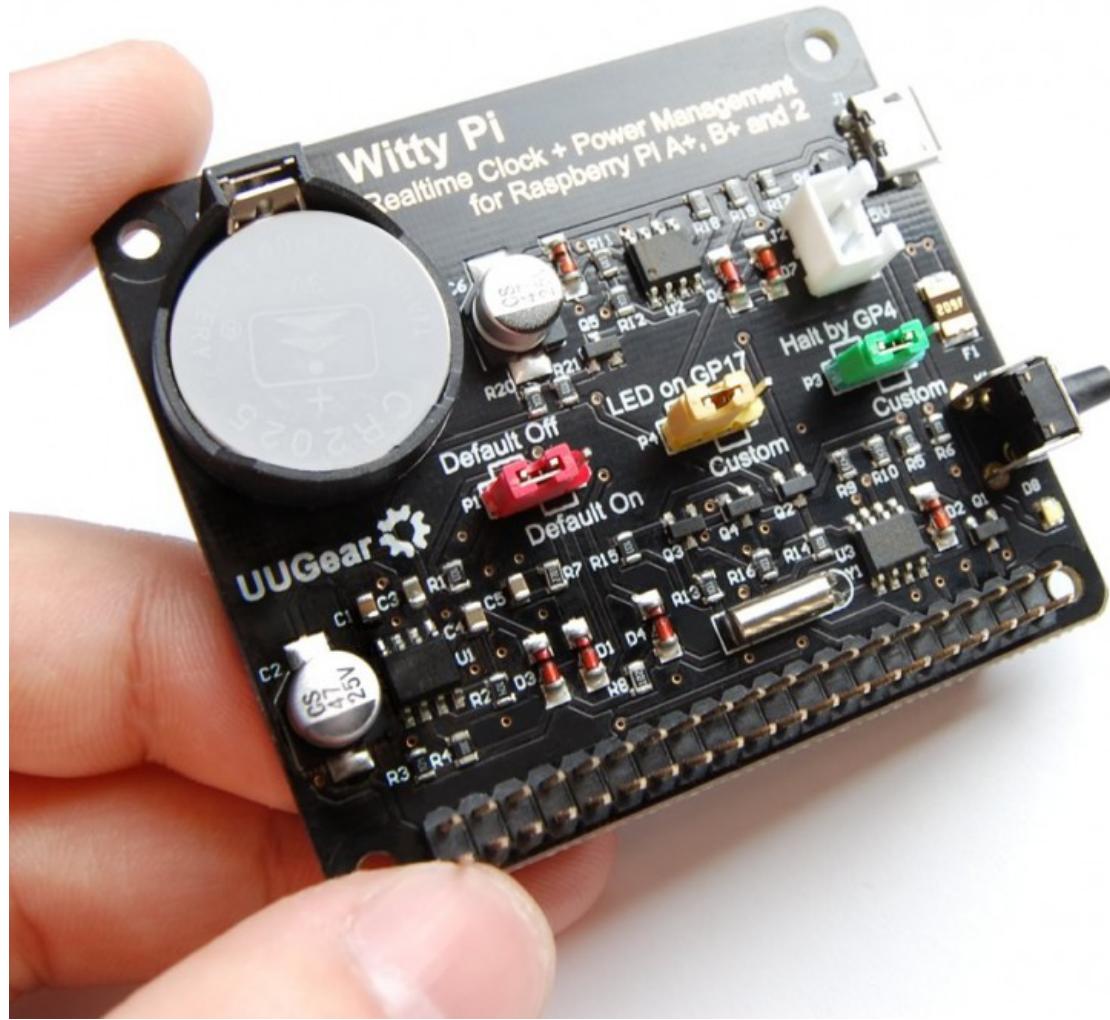
5-26 in 12V **power** Zero2Go 2.6A 88% **pdf**

Zero2Go work in pass through when input voltage is less than 5.5V, and in step-down mode when input voltage is higher than 5.5V. Zero2Go can switch between these two modes automatically.



- [1] Input 5.5~7.0V is not recommended as the DC-DC converter needs more dropout to work well.
- [2] Without adding heat sink to DC-DC chip and the inductor (U2 and L1), we suggest to keep the current below 1.5A for long term usage. If you are using the Pogo pin connector to output all current to Raspberry Pi Zero and peripherals, the current should be 1A or lower.



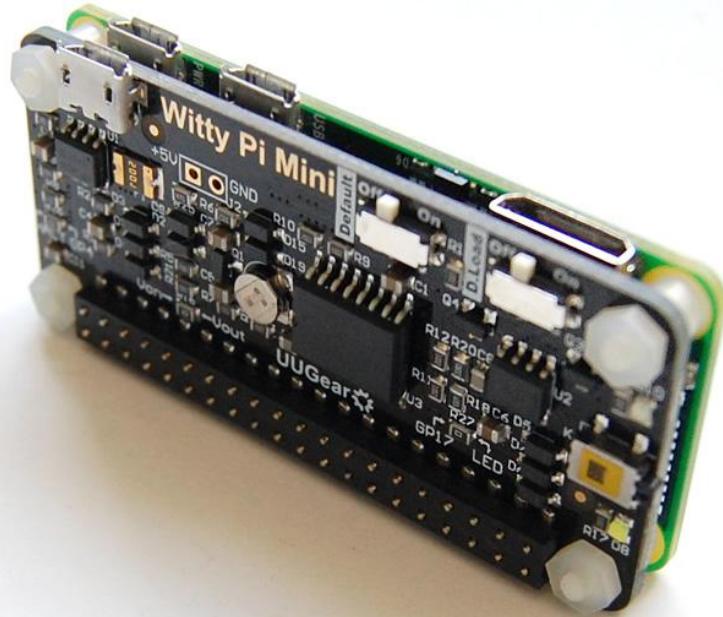


Realtime **clock**

See adafruit **version**

RTC w/ **power management** pdf

schedule the startup/shutdown of your Raspberry Pi.
write a script to define complex ON/OFF sequence.



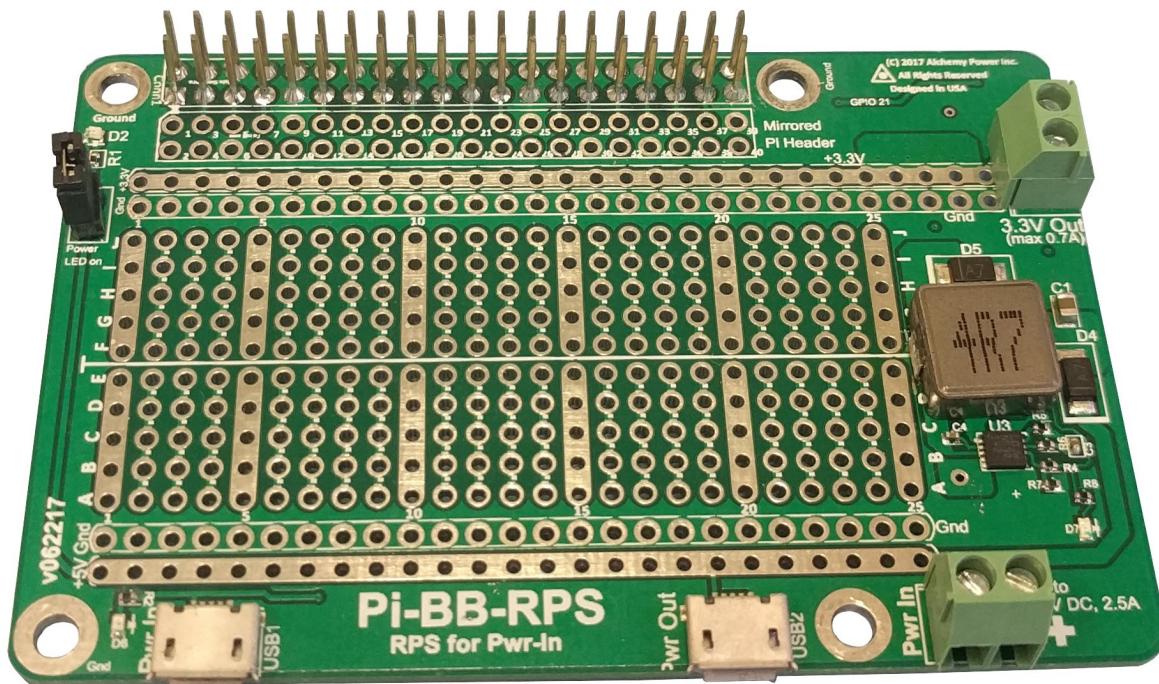
```
# Turn on Raspberry Pi for 5 minutes, in every 20 minutes
BEGIN 2015 - 08 - 01 00:00:00
END 2025 - 07 - 31 23:59:59
ON M5 # keep ON state for 5 minutes
OFF M15 # keep OFF state for 15 minutes
```

One with With wide range buck boost

<http://alchemy-power.com/pi-bb-rps>

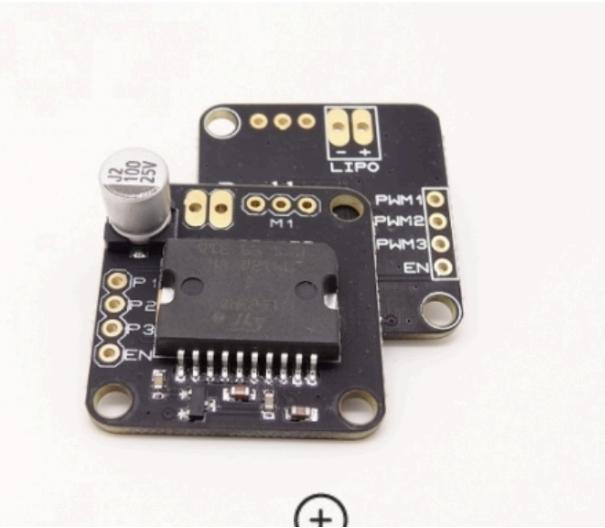
High Wattage Power In: Power from terminal block is a minimum of 7V to a maximum of 25V, 2.5A (24V maximum recommended.)

PiZ-UpTime: UPS for a Pi using one Li-Ion 14500 battery, ideal for Pi Zero.





L6234 up to 58V



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