

BMS CIRCUIT:

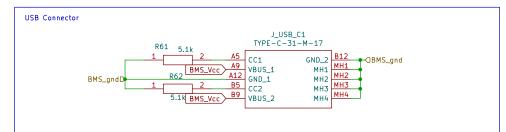
- Charging:
  -TP4056 as a well-known charging IC, up to 500mA with a 2.1K PROG resistor.
  -We do not use NTC for the battery in order to save costs.

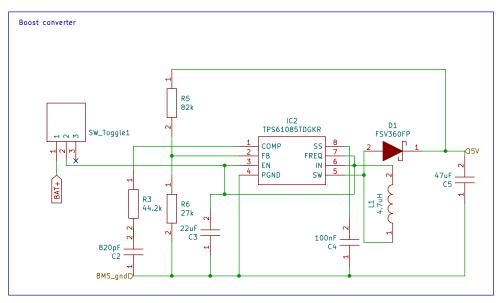
- Protection IC: -AP9214L-AD-HSBR-7 as main chip. It disconnects the ground of the battery from the rest of the circuit. -4.325V max voltage to 2.9V min voltage (protections).
- -Auto-release.

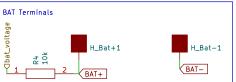
Boost Converter:

- -TPS61085TDGKR as main chip.
- -Toggle Switch.
- -5V fix output voltage. 0.6A maximum output current

- USB type C -Type C connector. -Only for charging







Rubén G.S. Making Devices

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File: BatteryCharger.kicad\_sch

Title: BMS

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