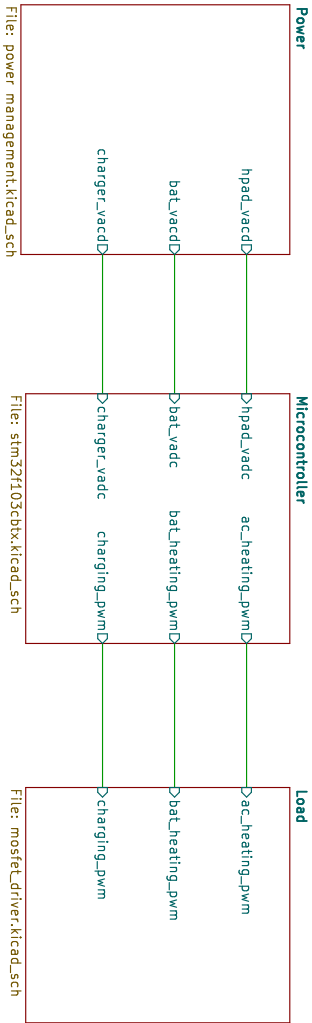


Neonest V 1.0.3 Schematic circuit



- H1

MountingHole
- H2

MountingHole
- H3

MountingHole
- H4

MountingHole

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Sheet: /

File: Neonest_V.1.3.kicad_sch

Title: **Neonest v 1.3**

Size: A4

Date: 2025-08-07

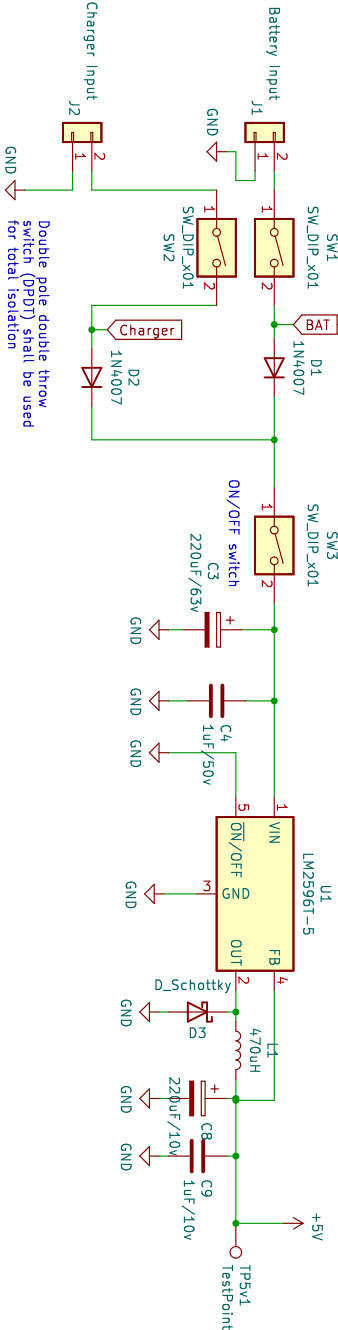
Rev:

KiCad E.O.A. kicad 7.0.11-rc3

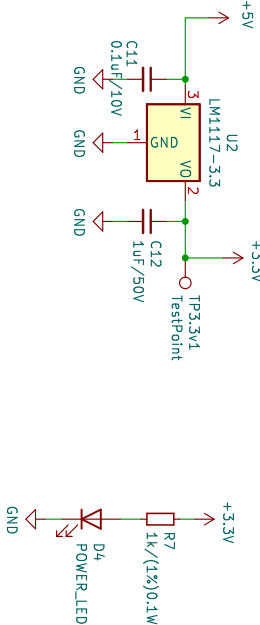
Id: 1/4

Power source inputs

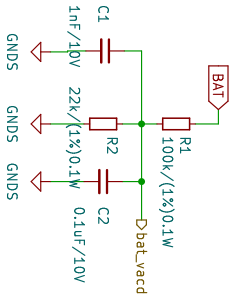
On/Off switch between isolates the MCU which disables the entire circuit.



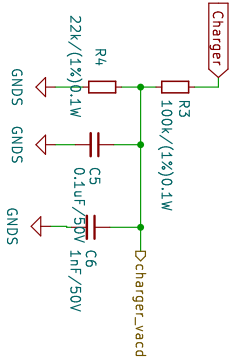
3.3v voltage regulator



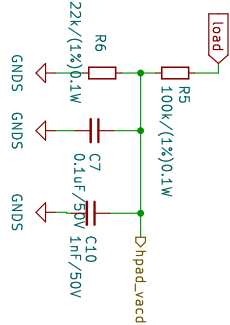
Sense battery voltage



Sense charger voltage



Sense heating pad voltage



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Sheet: /Power/

File: power management.kicad_sch

Title: Neonest v 1.3

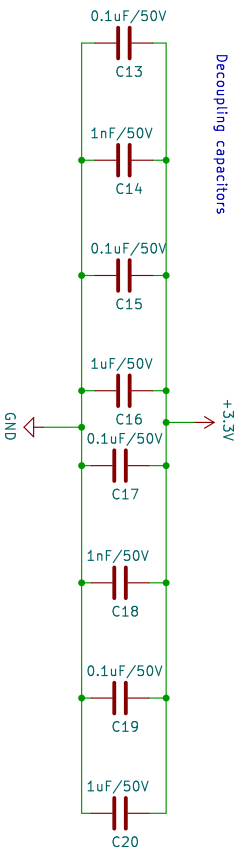
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Date: 2025-08-07

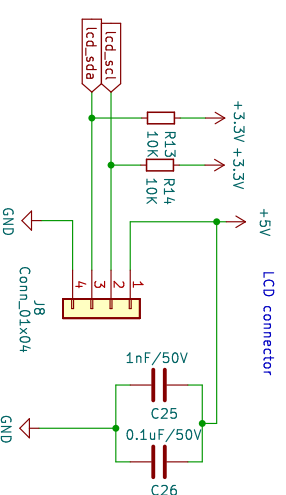
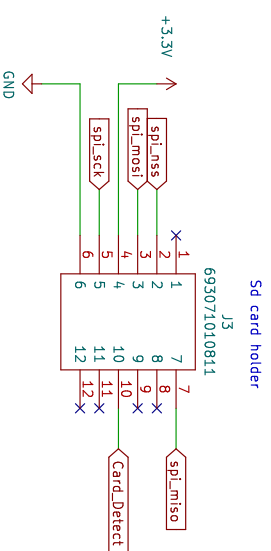
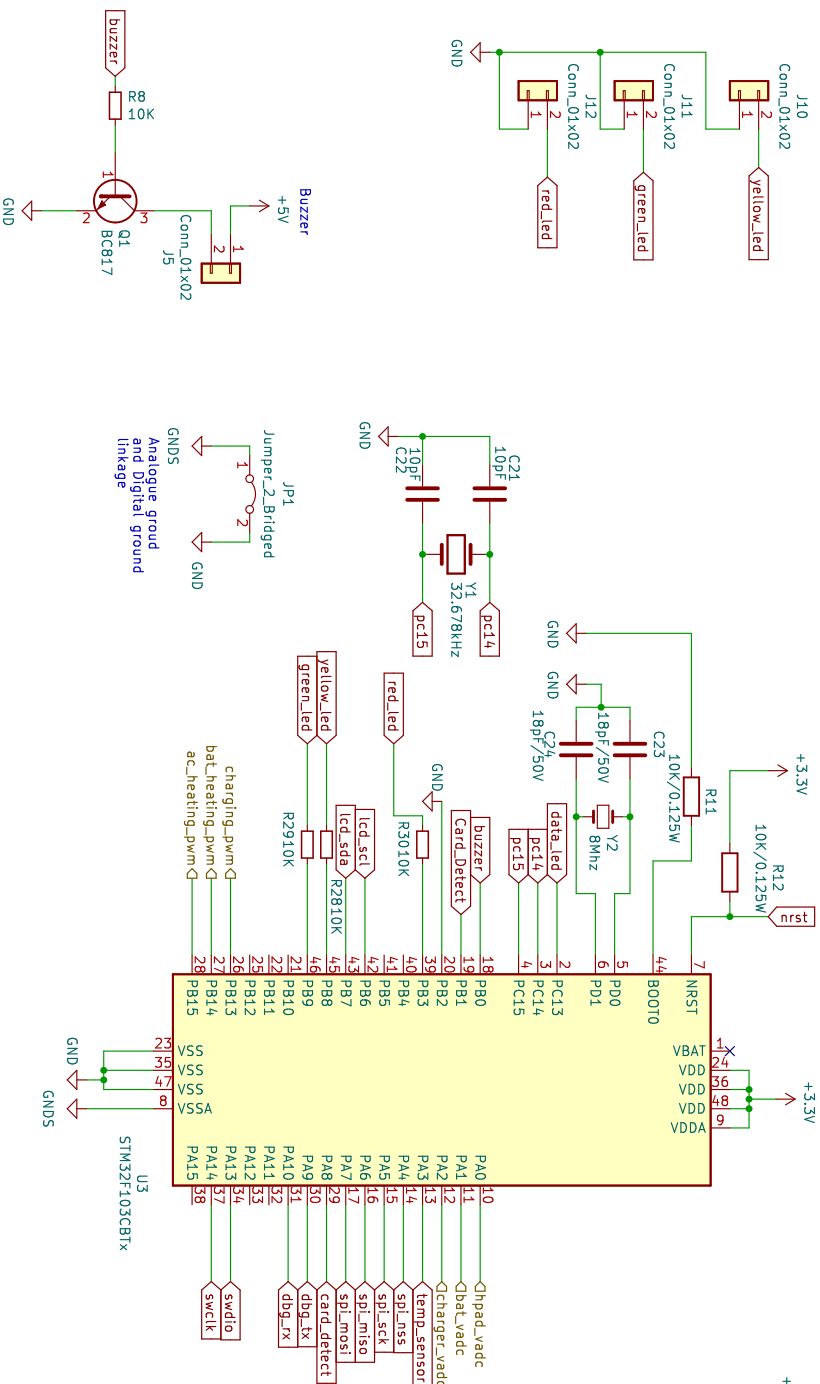
Kicad E.O.A. kicad 7.0.11-rc3

Rev: 1

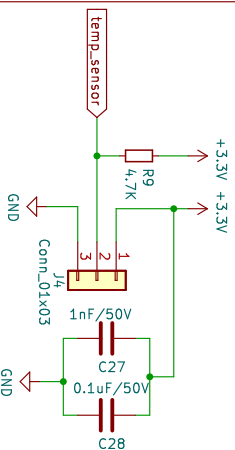
Id: 2/4



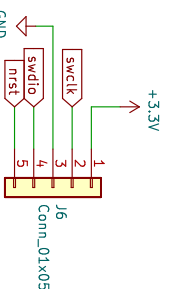
Microcontroller



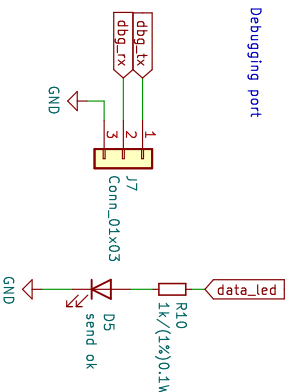
Temperature sensor



Programming port



Debugging port



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Sheet: Microcontroller/
File: stm32f103cbtx.kicad_sch

Title: **Neonest v 1.3**

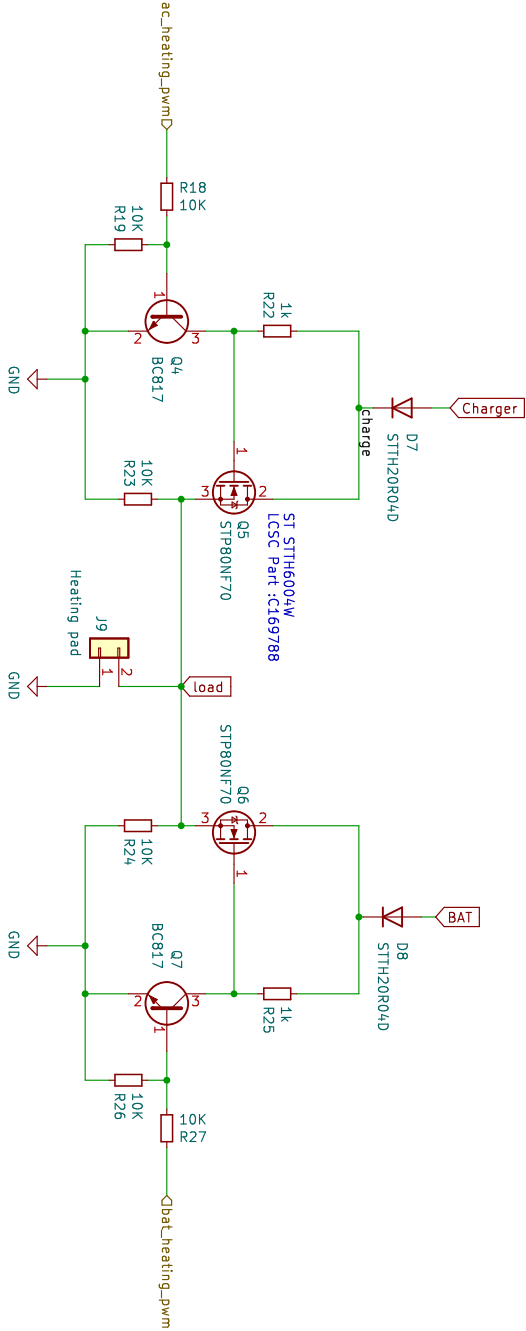
Size: A4

Date: 2025-08-07

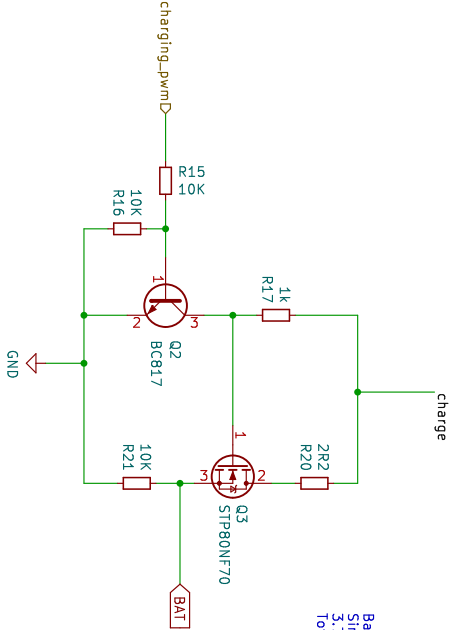
Kicad E.O.A. kicad 7.0.11-rc3

Rev: 3/4

Heating pad power sources



Battery charging



Battery sizing
Single cell 2600mAh(12 cells total)
3.7V lithiu ion 354p(3 series, 4 in parallel)
Total cell configuration 10.44Ah 14.8V(16.8V maximum)

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Sheet: /Load/
File: mosfet_driver.kicad_sch

Title: Neonest v 1.3

Size: A4 Date: 2025-08-07
Kicad E.O.A. kicad 7.0.11-rc3

Rev: 4/4