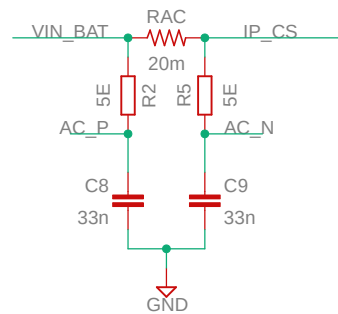


Current Sense

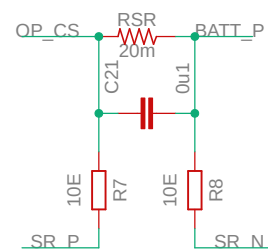
R3 is set 20m for full range of 3.2 A
LSB = 12.5 mA



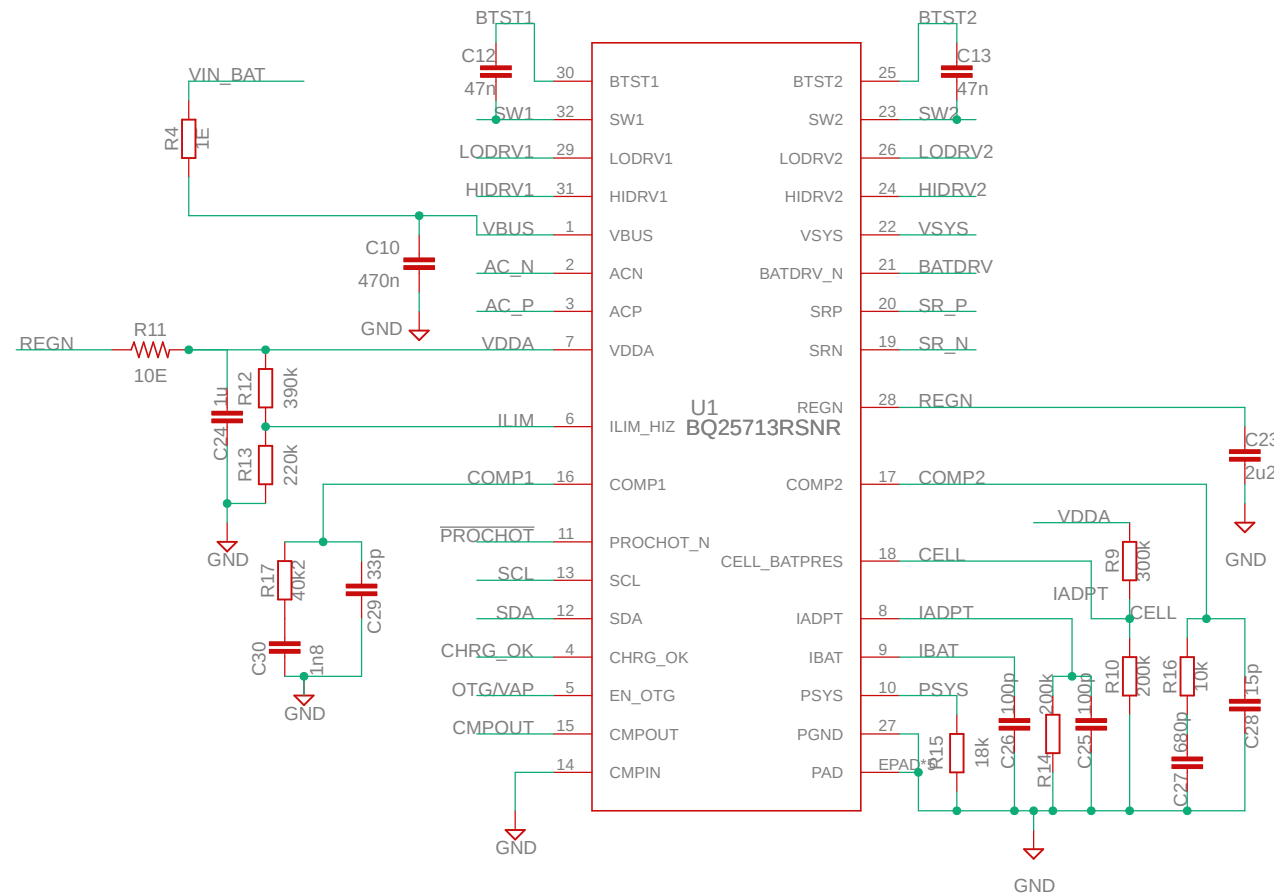
R3 is set 20m

Charge
FS = 4.064 A; LSB = 32 mA

Discharge
FS = 16.256 A; LSB = 128 mA



Battery Management IC



NOTES

Connections:

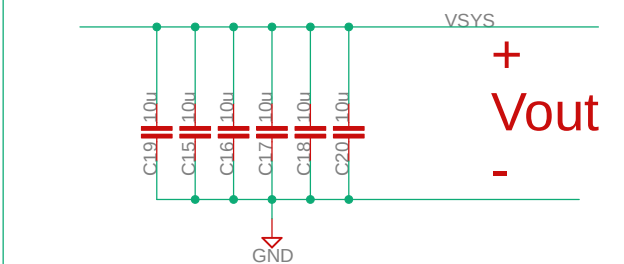
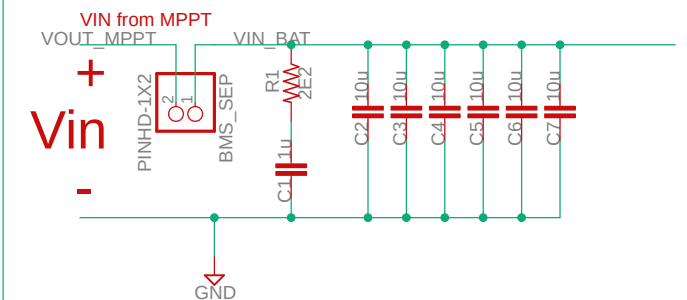
- VSYS: Battery voltage
- VOUT_MPPT: yes
- SCL, SDA: I2C

- Follow the AGND-PGND guidelines
- Breakout of BQ25713 pins?
 - CHRG_OK
 - CMPOUT
 - PSYS
 - PROCHOT
- Breakout of BQ29209
 - EN pin?
- Disable IBAT and IADPT with I2C for lower quiescent when not testing

Next prototypes:

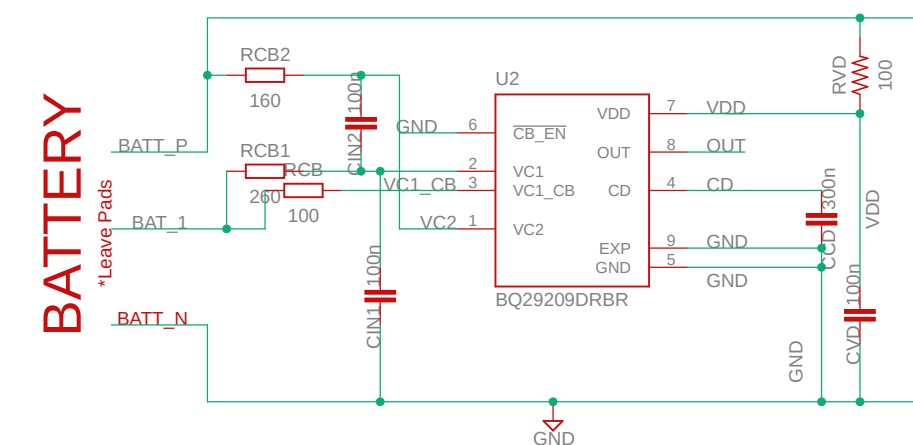
- Float IADPT pins

Power I/P and O/P

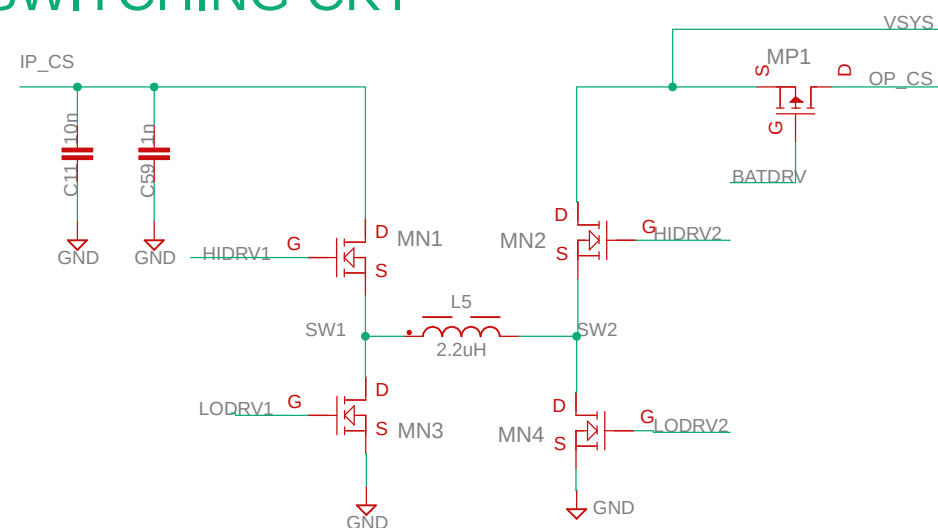


Charge Balancer

OUT-> Indicates overvoltage on cell



SWITCHING CKT



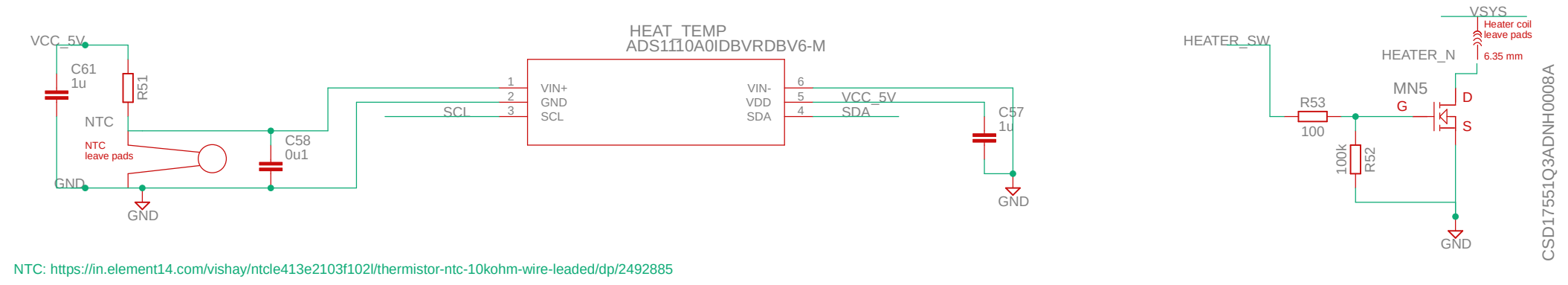
Designed by Ark, edited by Y.U.P.

PMB v1

20-03-2025 22:40

Sheet: 1/3

Heater



Notes:

Tasks:
- Choose biasing resistor value

PC104 CONN

