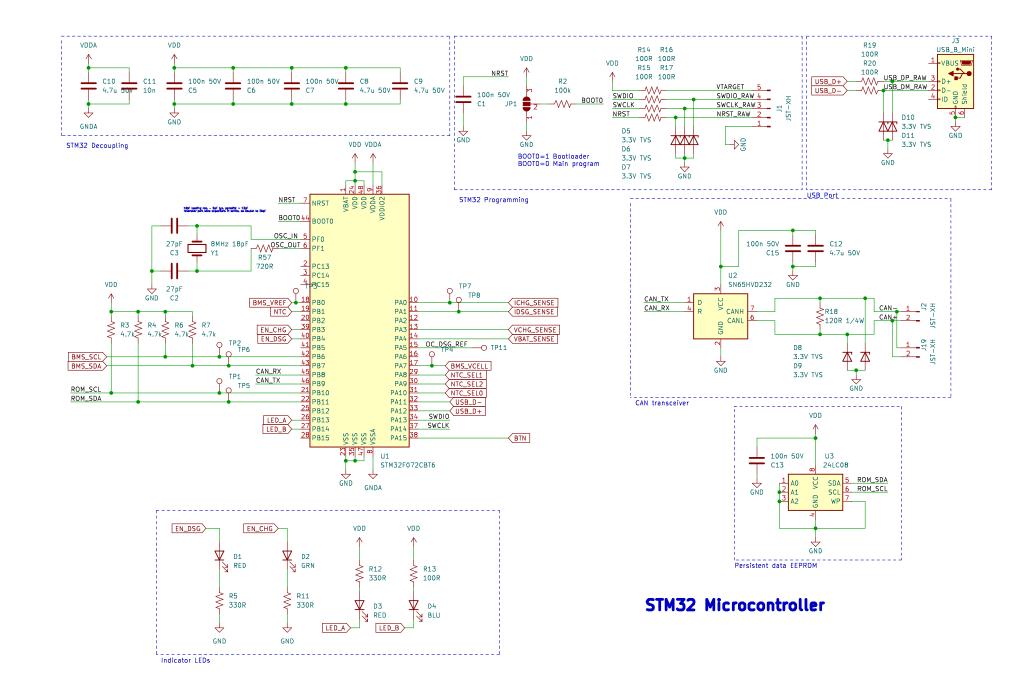
<u> </u>	иси
current_sense File: current_sense.kicad_sch	
battery_management rails File: rails.kicad_sch	1
File: battery_management.kicad_sch	
thermistors	
File: thermistors.kicad_sch	

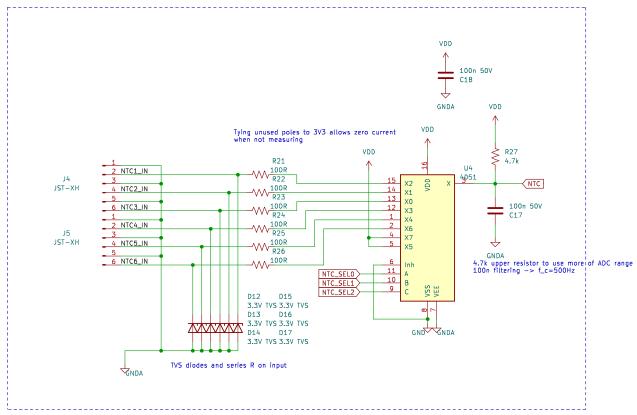
File: MCU.kicad_sch

power_connect	ors
ile: power co	nnectors.kicad_sch
	mech
	Files mank tilend and
	File: mech.kicad_sch

load_switch

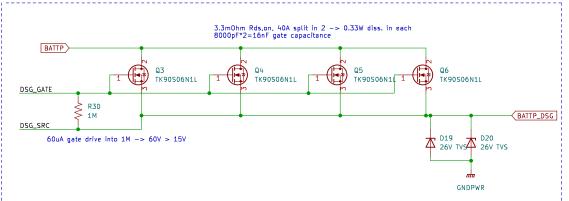
File: load_switch.kicad_sch

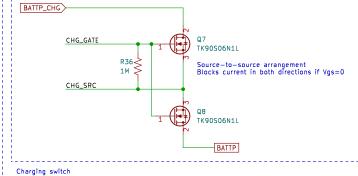




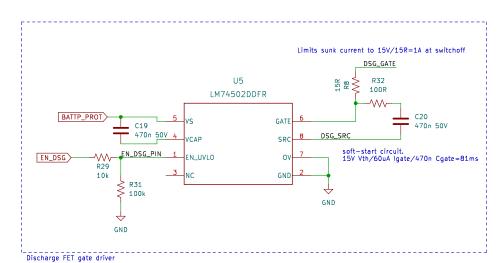
Thermistor analog MUX into ADC

Thermistors



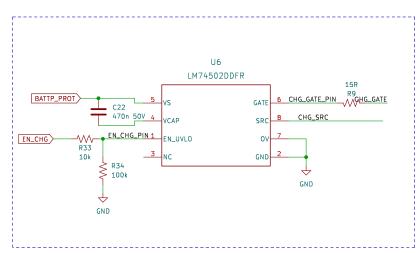


Discharging switch



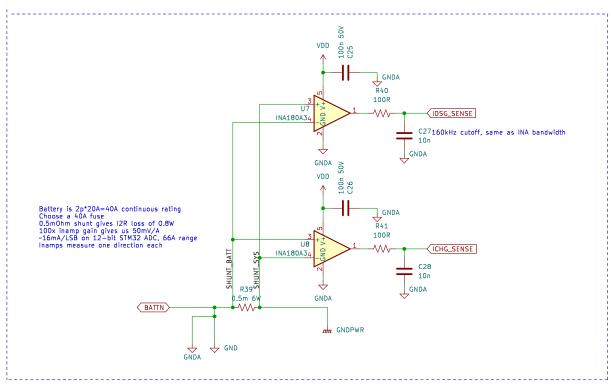
C23 100n 50V 100n 50V C4

Decoupling for gate drivers

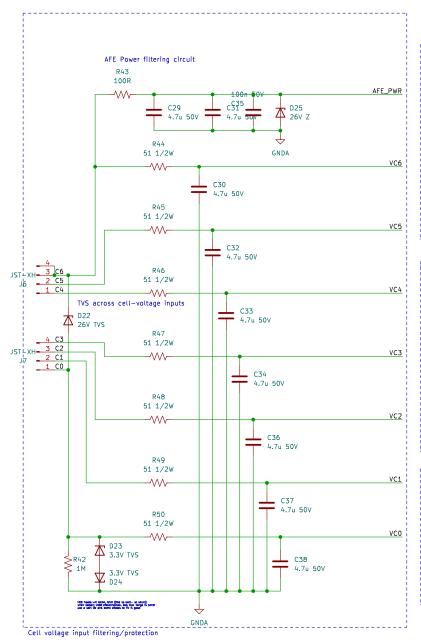


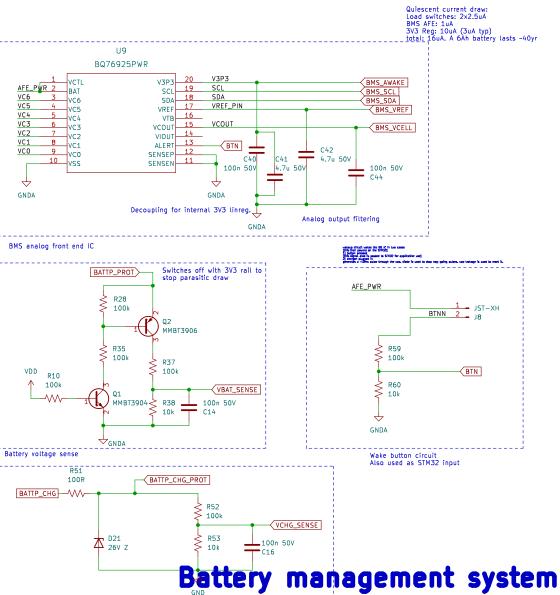
Charge FET gate driver

Charge/discharge switches



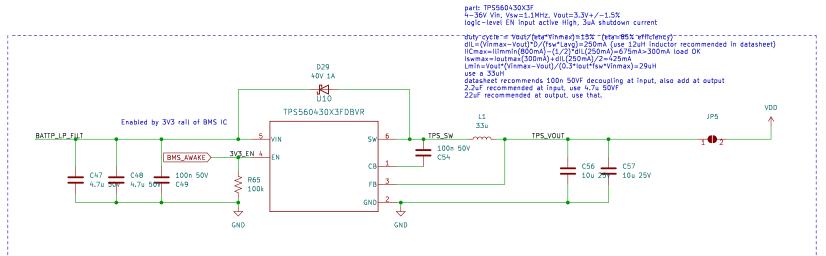
Bidirectional current sense shunt and amplifiers



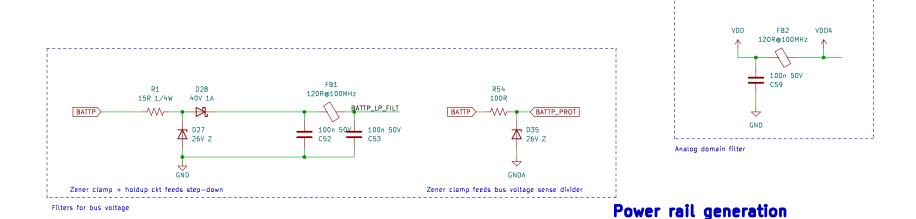


Charger input voltage sense

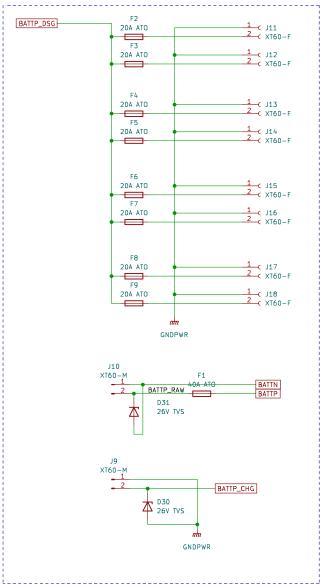
Switching reg design output: 3.3V 300mA input: 22.2-25.2V (65)



3V3 Step-down DC/DC converter



H1
MountingHote
H2
MountingHote
H3
H3
MountingHote
H4
MountingHote



TVS diodes are sprinkled near XT60 plugs to avoid ESD, transients breaking ckt

To avoid debris causing shorts: Female XT60s are used for power out. Male XT60s are used for power in.

Power connectors

Power connectors