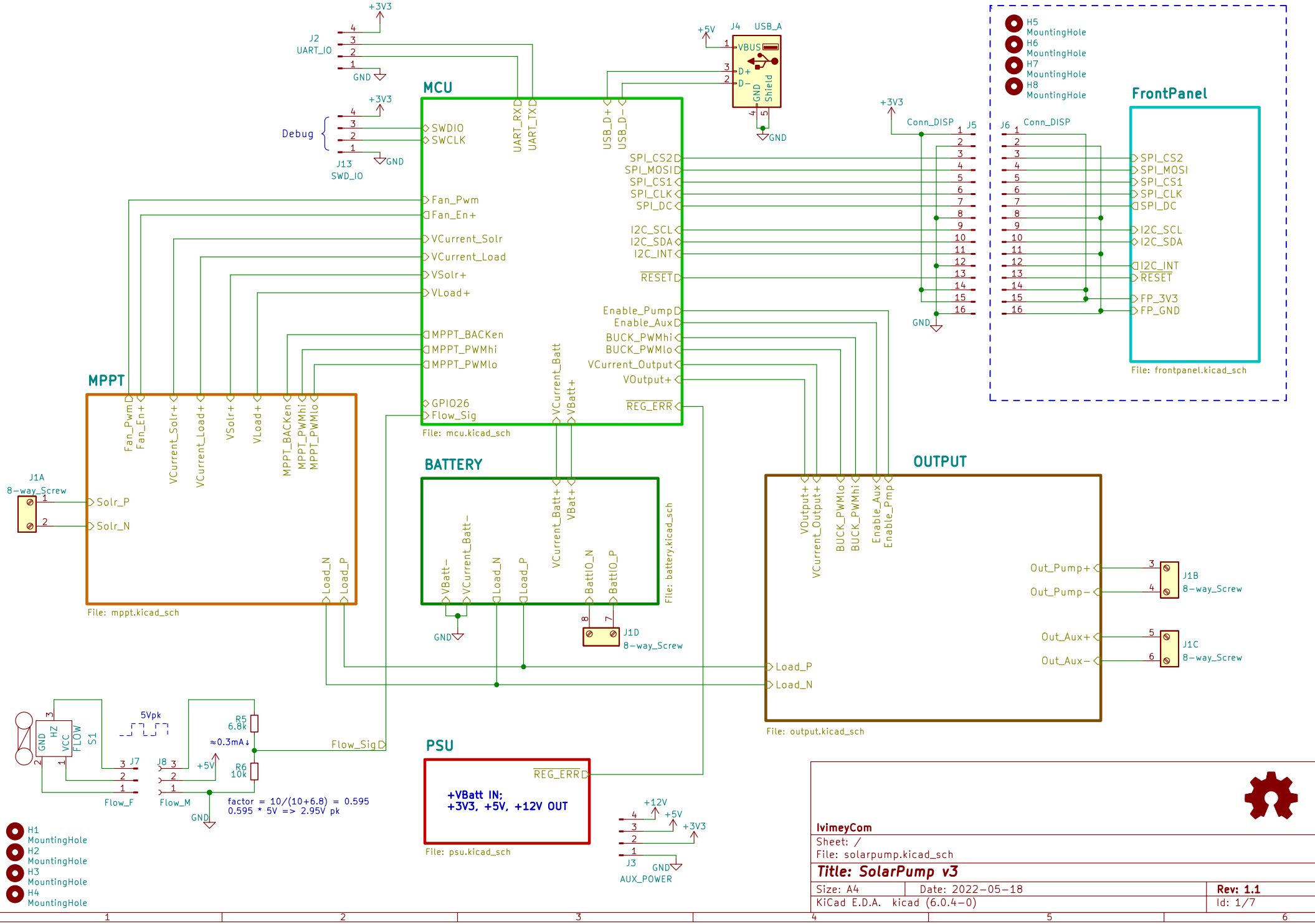
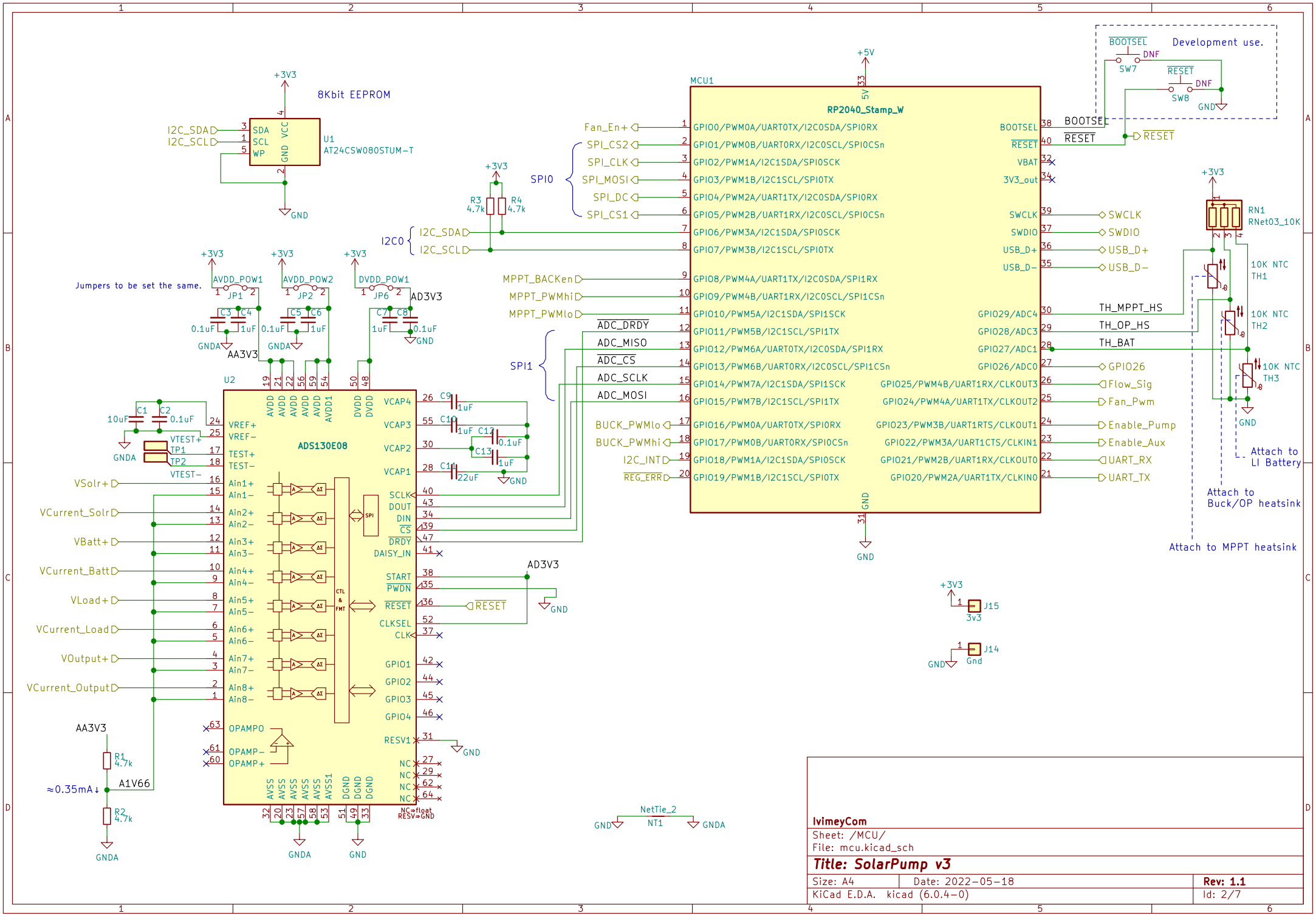
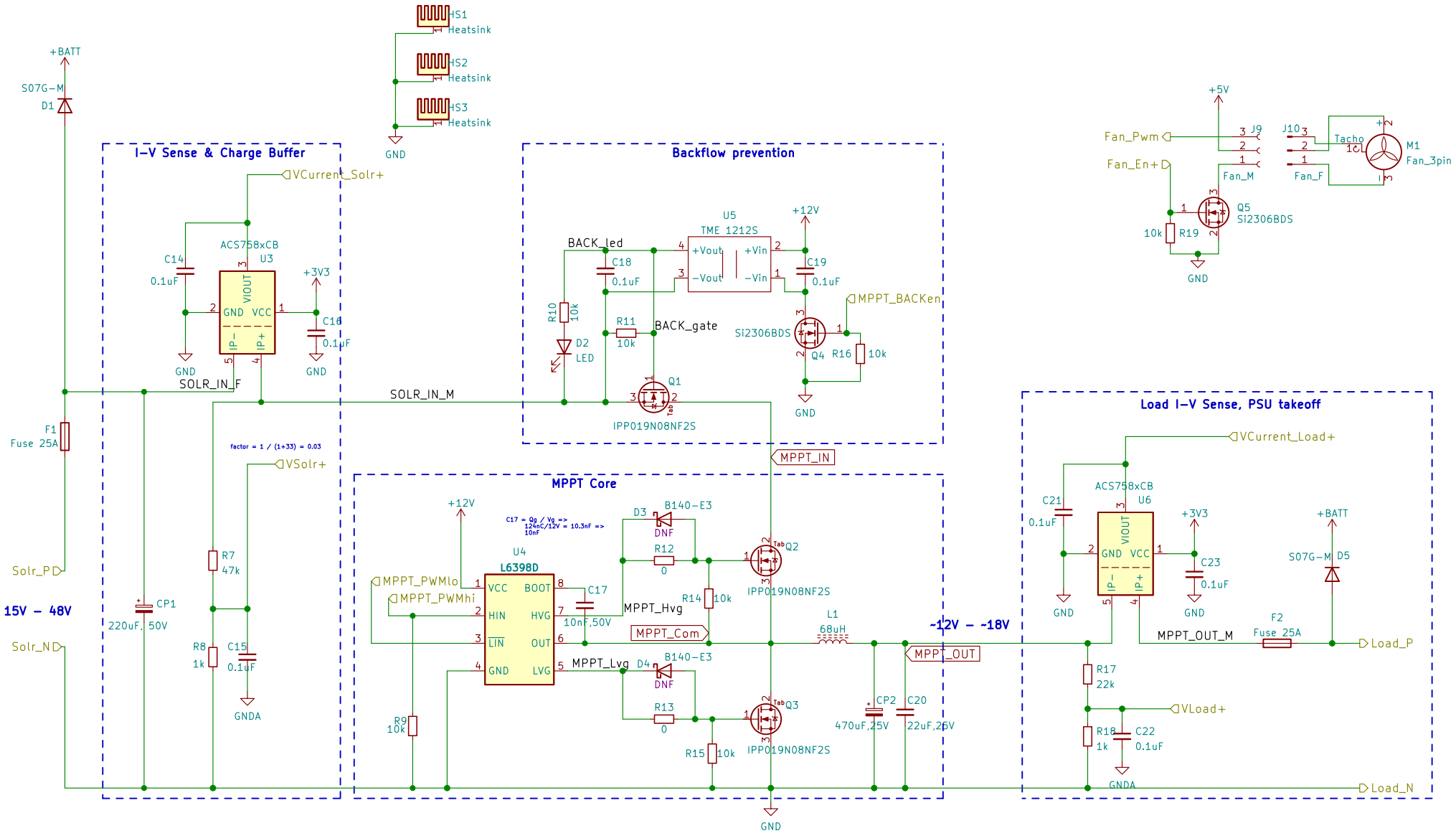

MCU
MPPT
BATTERY
OUTPUT
PSU
FrontPanel
File: mcu.kicad_sch
File: mppt.kicad_sch
File: battery.kicad_sch
File: output.kicad_sch
File: frontpanel.kicad_sch
File: psu.kicad_sch
+VBatt IN:
+3V3, +5V, +12V OUT
factor = 10/(10+6.8) = 0.595
0.595 * 5V => 2.95V pk
IvimeyCom
Sheet: /
File: solarpump.kicad_sch
Title: SolarPump v3
Size: A4
Date: 2022-05-18
Rev: 1.1
KiCad E.D.A. kicad (6.0.4-0)
Id: 1/7

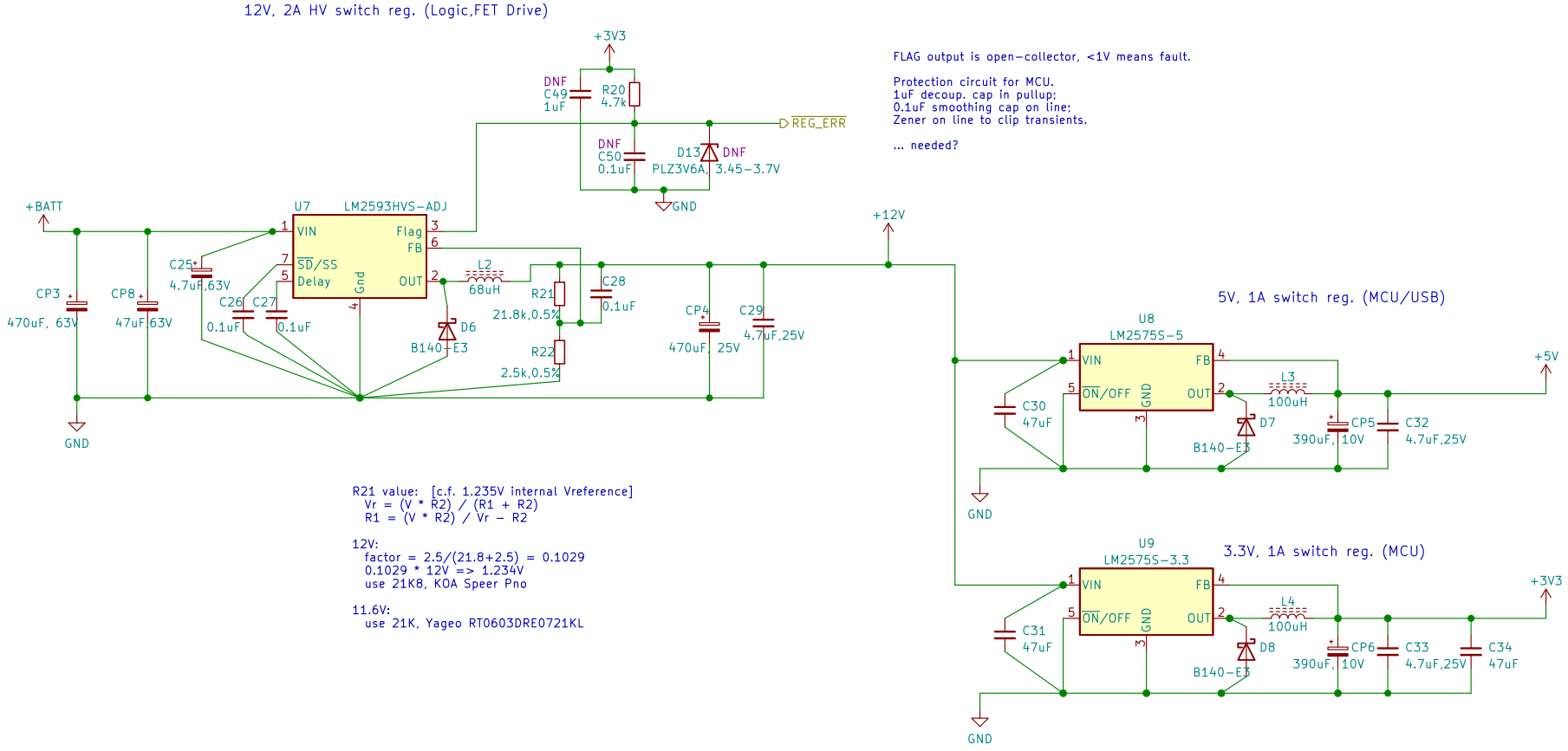


IvimeyCom	
Sheet: /MCU/	
File: mcu.kicad_sch	
Title: SolarPump v3	
Size: A4	Date: 2022-05-18
KiCad E.D.A. kicad (6.0.4-0)	Id: 2/7

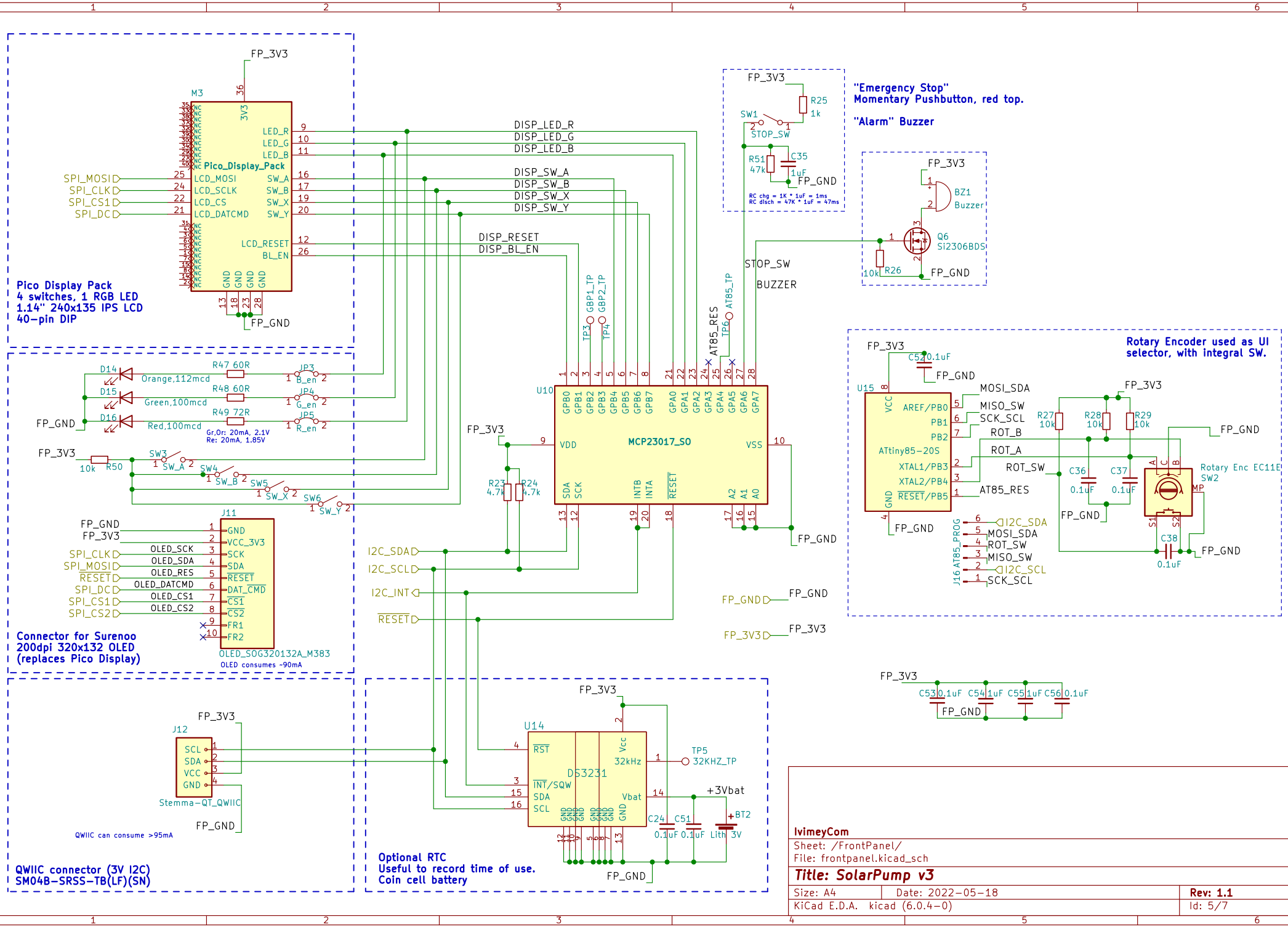
Rev: 1.1

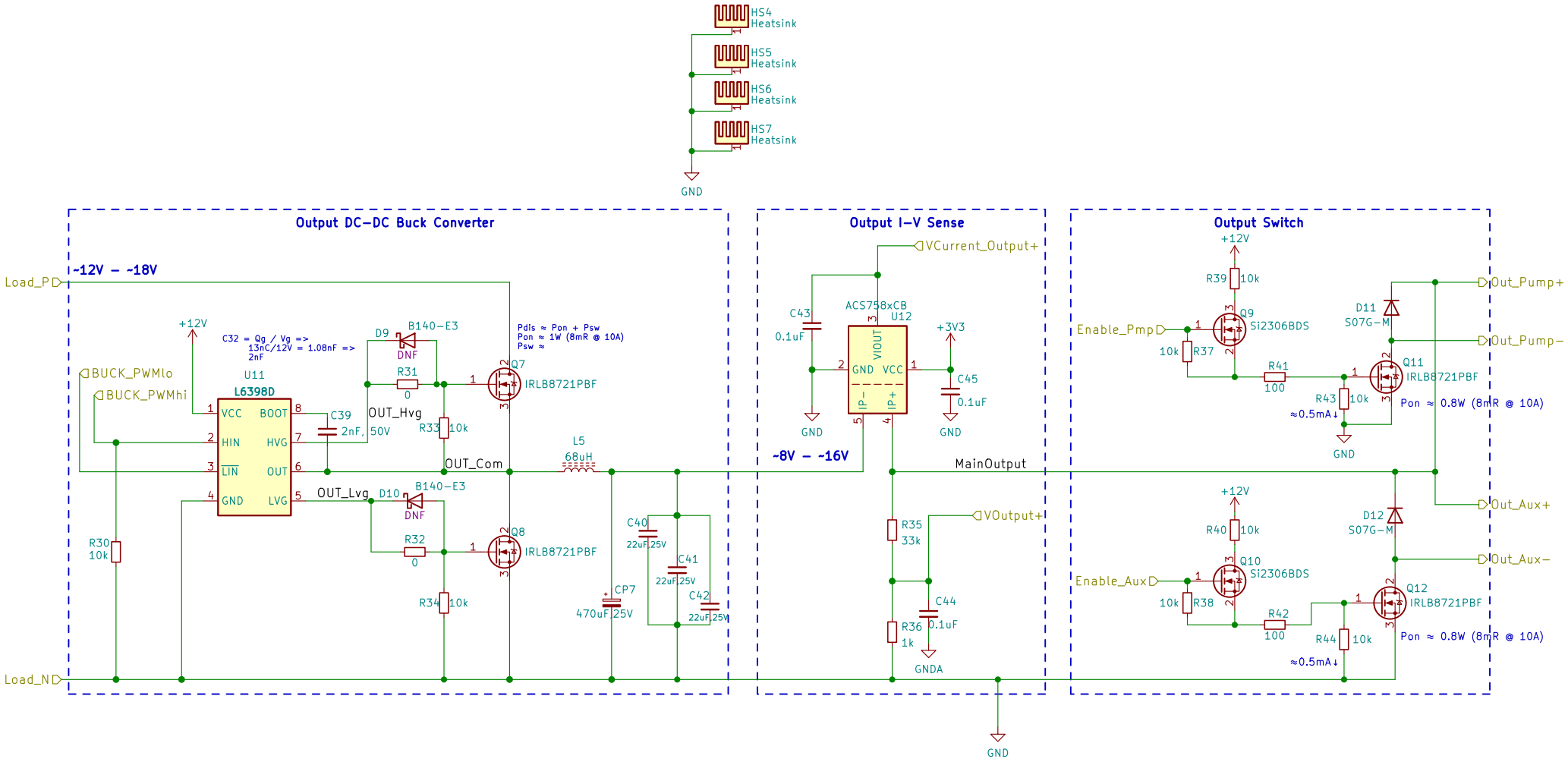


IvimeyCom		
Sheet: /MPPT/		
File: mppt.kicad_sch		
Title: SolarPump v3		
Size: A4	Date: 2022-05-18	**Rev: 1.1**
KiCad E.D.A. kicad (6.0.4-0)		Id: 3/7



IvimeyCom		
Sheet: /PSU/		
File: psu.kicad_sch		
Title: SolarPump v3		
Size: A4	Date: 2022-05-18	**Rev: 1.1**
KiCad E.D.A. kicad (6.0.4-0)		Id: 4/7


Pico Display Pack
4 switches, 1 RGB LED
1.14" 240x135 IPS LCD
40-pin DIP
Pico_Display_Pack
"Emergency Stop"
Momentary Pushbutton, red top.
"Alarm" Buzzer
Rotary Encoder used as UI selector, with integral SW.
Connector for Surenoo
200dpi 320x132 OLED
(replaces Pico Display)
OLED_SOG320132A_M383
OLED consumes ~90mA
QWIIC connector (3V I2C)
SM04B-SRSS-TB(LF)(SN)
Stemma-QT_QWIIC
QWIIC can consume >95mA
Optional RTC
Useful to record time of use.
Coin cell battery
MCP23017_SO
ATtiny85-20S
DS3231
Si2306BDS
Buzzer
Rotary Enc EC11E
IvimeyCom
Sheet: /FrontPanel/
File: frontpanel.kicad_sch
Title: SolarPump v3
Size: A4
Date: 2022-05-18
Rev: 1.1
KiCad E.D.A. kicad (6.0.4-0)
Id: 5/7



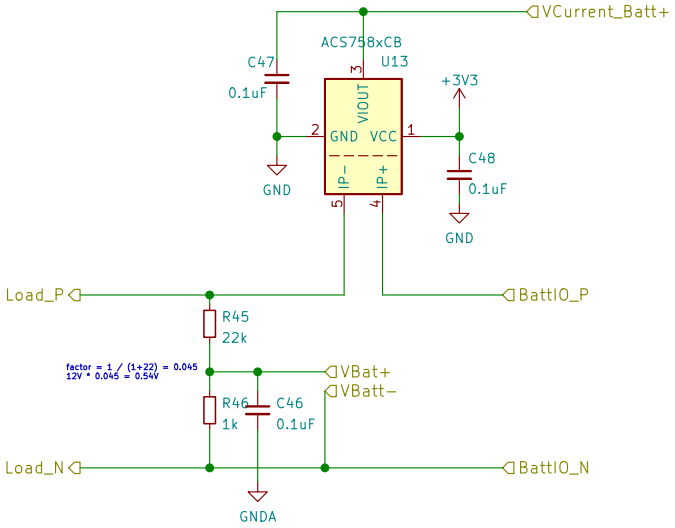
IvimeyCom

Sheet: /OUTPUT/

File: output.kicad_sch

Title: SolarPump v3

Size: A4	Date: 2022-05-18	**Rev: 1.1**
KiCad E.D.A. kicad (6.0.4-0)		Id: 6/7



IvimeyCom		
Sheet: /BATTERY/		
File: battery.kicad_sch		
Title: SolarPump v3		
Size: A4	Date: 2022-05-18	**Rev: 1.1**
KiCad E.D.A. kicad (6.0.4-0)		Id: 7/7