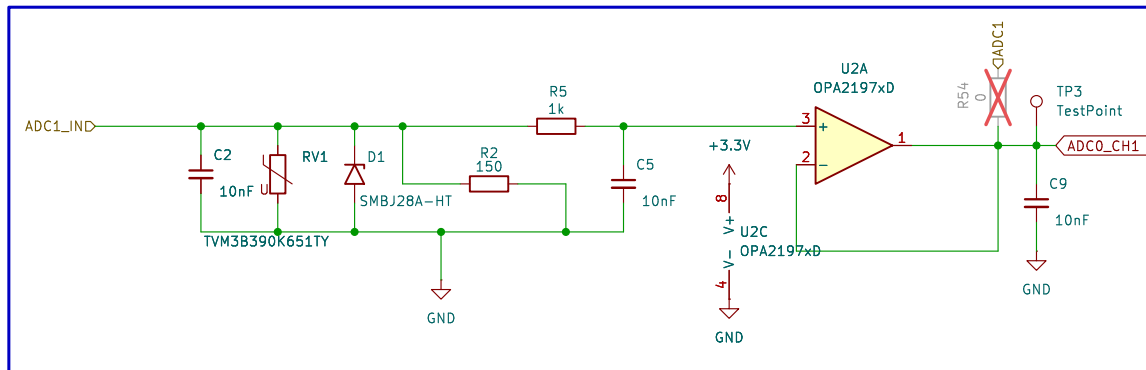
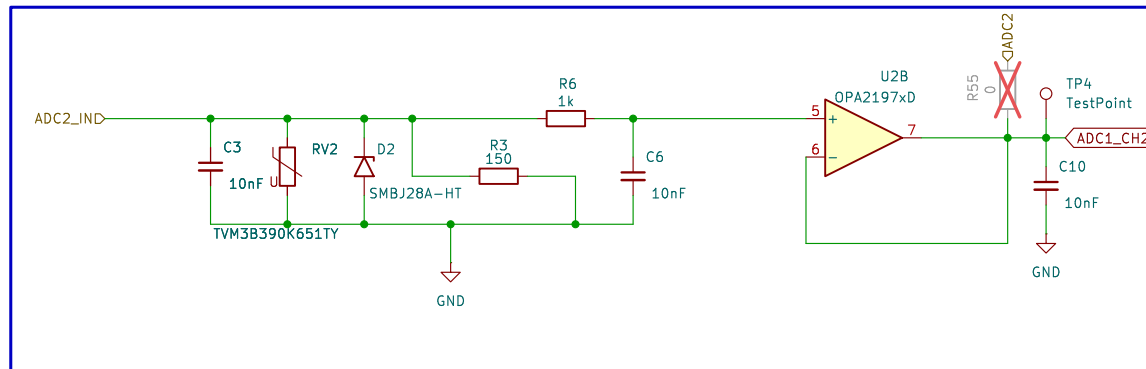


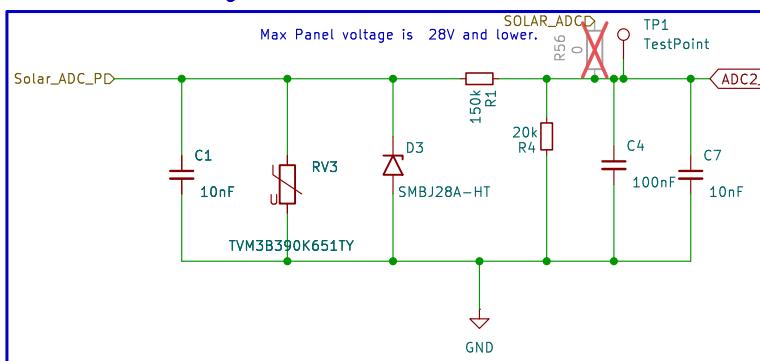
4-20mA Read 1



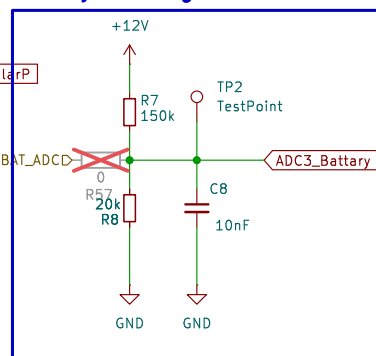
4-20mA Read 2



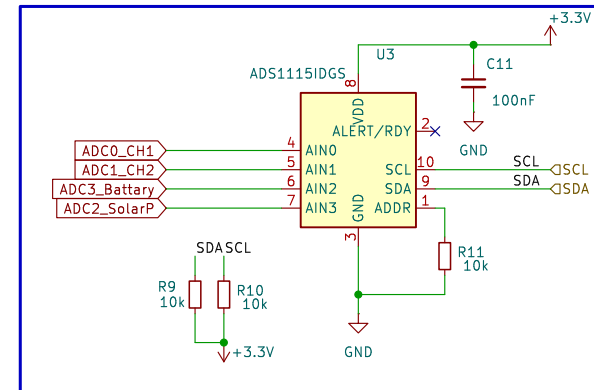
Solar Panel Reading



Battery Reading



ADS1115IDGST



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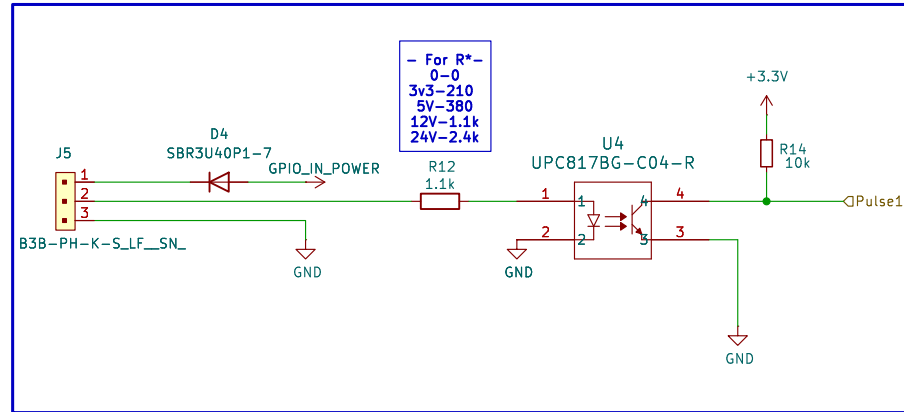
Sheet: /ANALOG READING/
 File: AnalogRead.kicad_sch

Title: Analog Reading

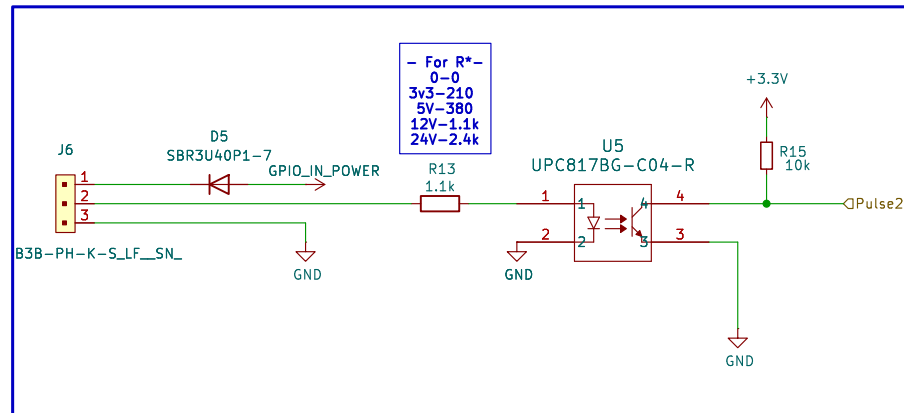
Size: A4 Date: 2025-05-20
 KiCad E.D.A. 9.0.4

Rev:
 Id: 2/6

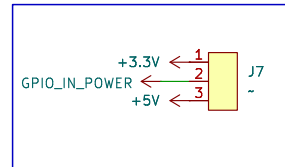
DIGITAL INPUT 1



DIGITAL INPUT 2



GPIO INPUT SELECT



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Merged

Sheet: /DIGITAL INPUTS/
File: pulseRead.kicad_sch

Title: Pulse Read Circuit

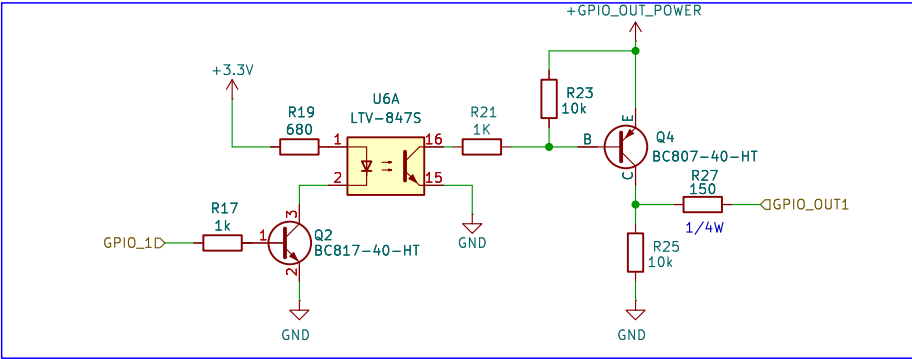
Size: A4 Date: 2025-09-01

KiCad E.D.A. 9.0.4

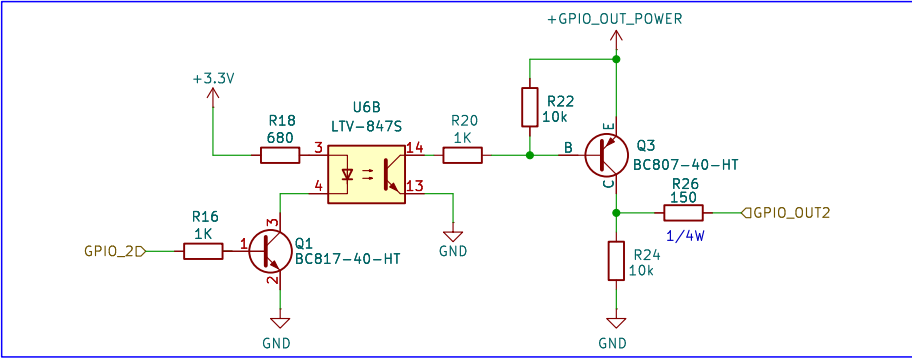
Rev: V1.0

Id: 3/6

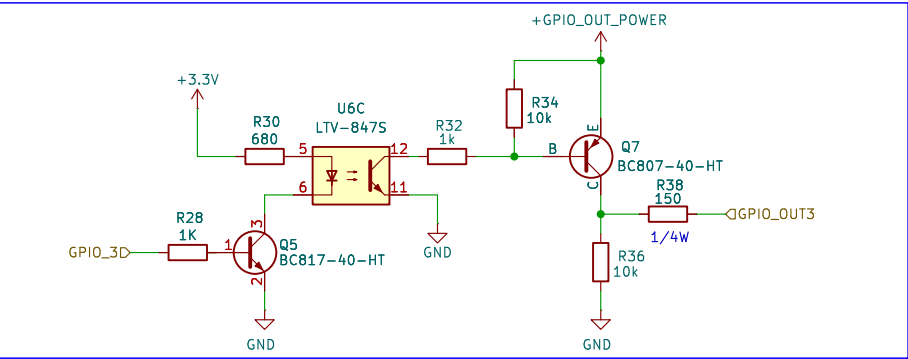
GPIO OUTPUT 1



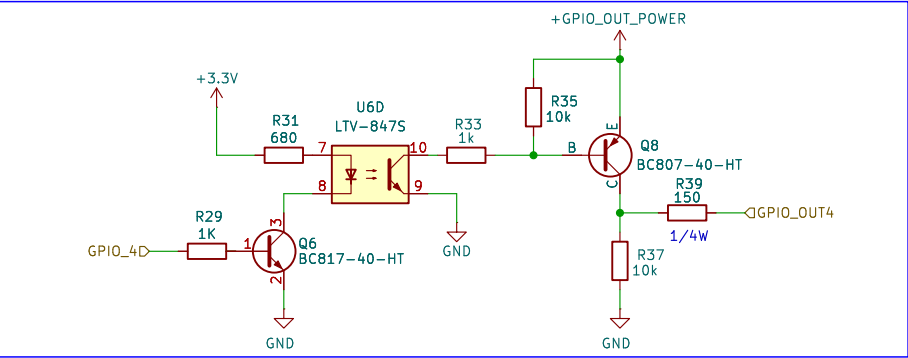
GPIO OUTPUT 2



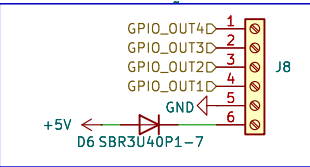
GPIO OUTPUT 3



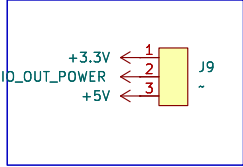
GPIO OUTPUT 4



PINS



GPIO OUTPUT SELECT



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Sheet: /DIGITAL OUTPUTS/

File: Digital_Outputs_Circuit.kicad_sch

Title: Analog Reading

Size: A4 Date: 2025-05-20

KiCad E.D.A. 9.0.4

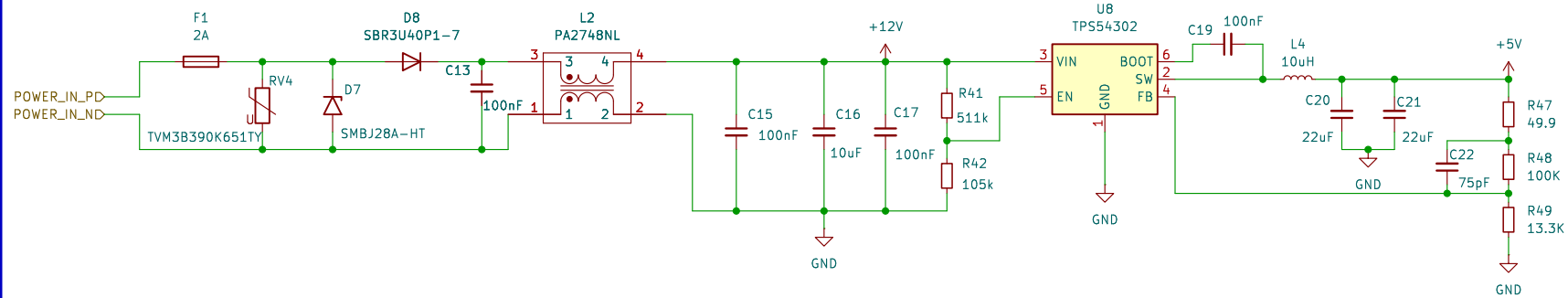
Rev:

Id: 4/6

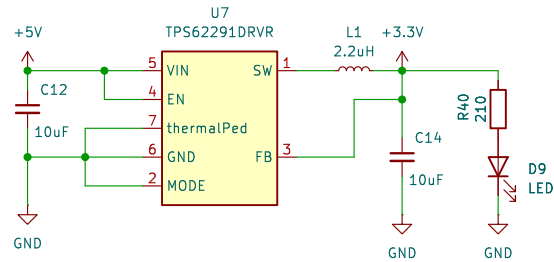
Vin to 5v

Table 8-2. Recommended Component Values

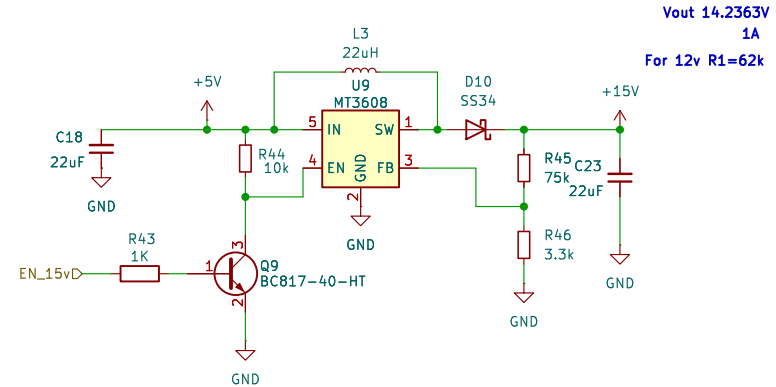
Yout (V)	L (uH)	Cout (uF)	R1 (kOhm)	R2 (kOhm)	C2 (uF)
1.8	4.7	66	100	49.9	33
2.5	5.6	66	100	31.6	47
3.3	6.8	44	100	22.1	47
5	9	44	100	13.3	75
12	15	44	100	5.23	100



5v to 3v3



5v to 15v



SENSOR OUTPUT SELECT

+15V ← 2 J10
+12V ← 1 22-23-2021

Designed by Oguzhan ESEN

Merged

Sheet: /POWER/

File: power.kicad_sch

Title: Power 7-28V to 5V and 3.3V

Size: A4

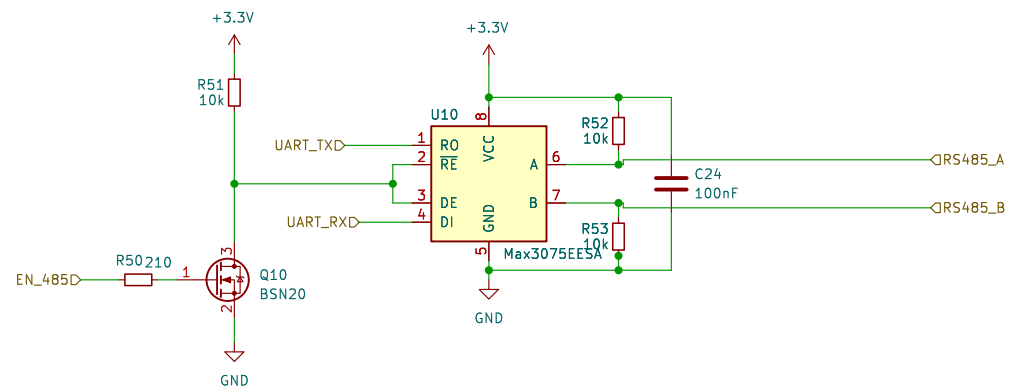
Date: 2025-05-20

Rev:

KiCad E.D.A. 9.0.4

Id: 5/6

RS485



Sheet: /RS485/
File: RS485.kicad_sch

Title:

Size: A4
KiCad E.D.A. 9.0.4

Date:

Rev:

Id: 6/6