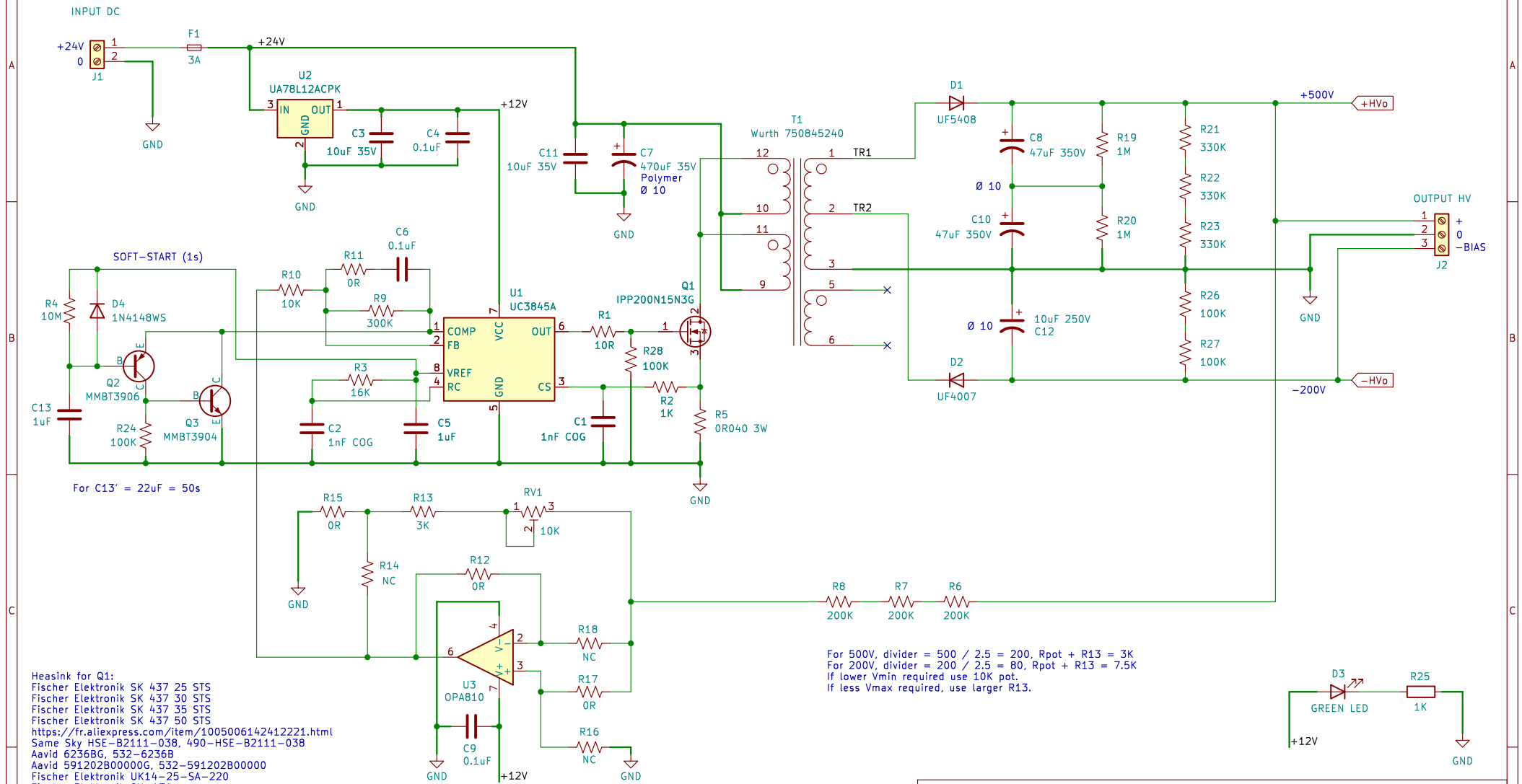


Note: The output load resistors have been selected for an output voltage around 300/400V. If you use the module outside this voltage range, you will need to adapt the values.



Heatsink for Q1:
 Fischer Elektronik SK 437 25 STS
 Fischer Elektronik SK 437 30 STS
 Fischer Elektronik SK 437 35 STS
 Fischer Elektronik SK 437 50 STS
<https://fr.aliexpress.com/item/1005006142412221.html>
 Same Sky HSE-B2111-038, 490-HSE-B2111-038
 Aavid 6236B6, 532-6236B
 Aavid 591202B00000G, 532-591202B00000
 Fischer Elektronik UK14-25-SA-220
 Fischer Elektronik SK-431
 Fischer Elektronik SK 13 35 SA 220
 Fischer Elektronik ICK 35 SA
 Q1 = GT150N12T (R1=15R) or IPP200N15N3G (R1=12R) or TK32E12N1.S1X (R1=12R) or IRFB4019PBF (R1=10R) or IRFB4615PBF (R1=12R).

- H1 MountingHole + Out: Bypass
Install R15, R12, R18, no U3, R9=100K
- H2 MountingHole + Out: Follower (better load regulation)
Install R15, R12, R17, U3 = OPA810, R9=300K
- H3 MountingHole - Out: Inverter
Install R14, R16, R18 U3 = OPA810, R9=300K, invert D1 diode and C8/C10 capacitors
- H4 MountingHole

Adapted from Dave's project (<https://www.djerrickson.com/hi-v-dc-dc/>)
 150-500V

by Stef

Sheet: /

File: HV-MODULE.kicad_sch

Title: High Voltage UC3845A Power Supply

Size: A4 Date: 2025-11-30

KiCad E.D.A. 9.0.6

Rev: 1.1.3

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