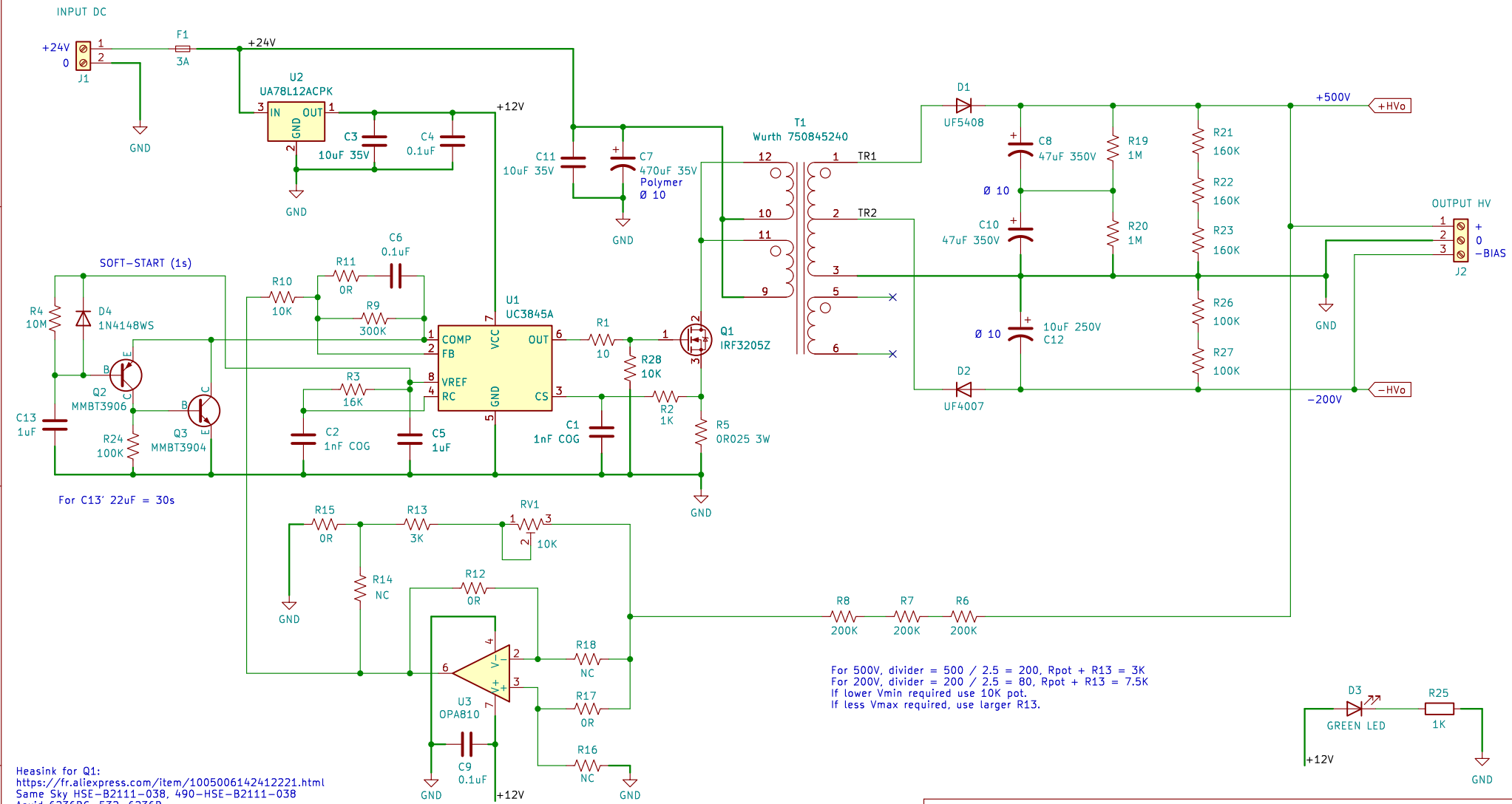


Note: The output load resistors have been selected for an output voltage around 300/400V. If you use the module outside this voltage range, you will need to adapt the values.



Heatsink for Q1:
<https://fr.aliexpress.com/item/1005006142412221.html>
Same Sky HSE-B2111-038, 490-HSE-B2111-038
Aavid 6236BG, 532-6236B
Aavid 591202B00000G, 532-591202B00000

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

For 500V, divider = $500 / 2.5 = 200$, Rpot + R13 = 3K
For 200V, divider = $200 / 2.5 = 80$, Rpot + R13 = 7.5K
If lower Vmin required use 10K pot.
If less Vmax required, use larger R13.

Adapted from Dave's project (<https://www.djerrickson.com/hi-v-dc-dc/>)
200-500V
by Stef

Sheet: /
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Title: High Voltage Power Supply

Size: A4	Date: 2025-06-08	Rev: 1.0.1
KiCad E.D.A. 8.0.8	Id: 1/1	