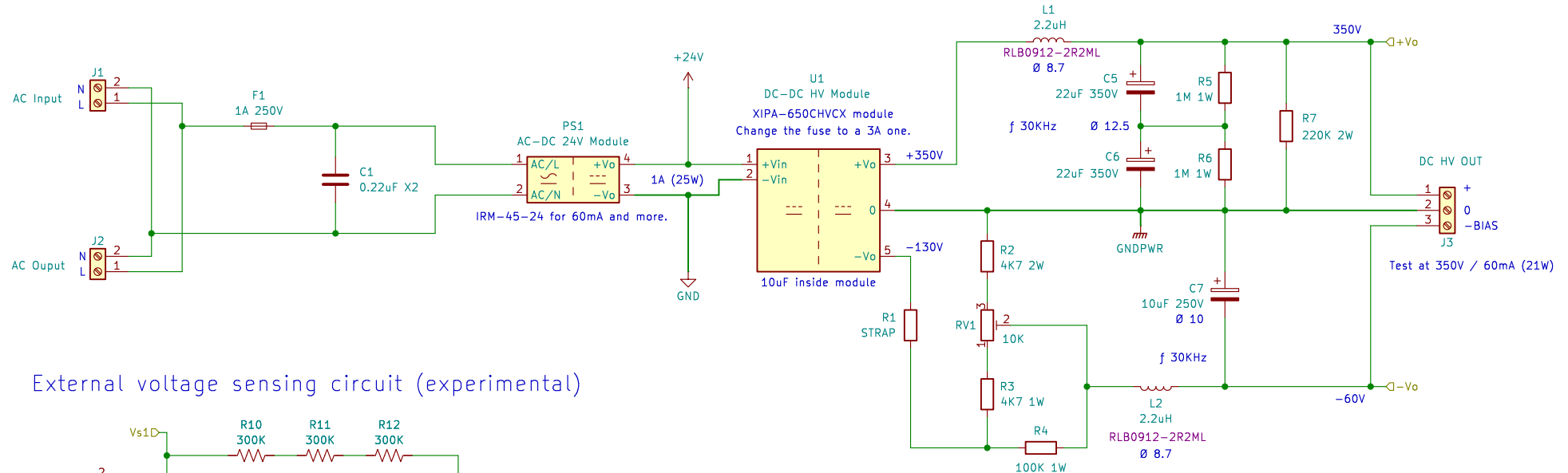
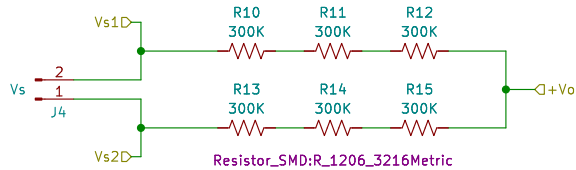


Tube High Voltage Power Supply

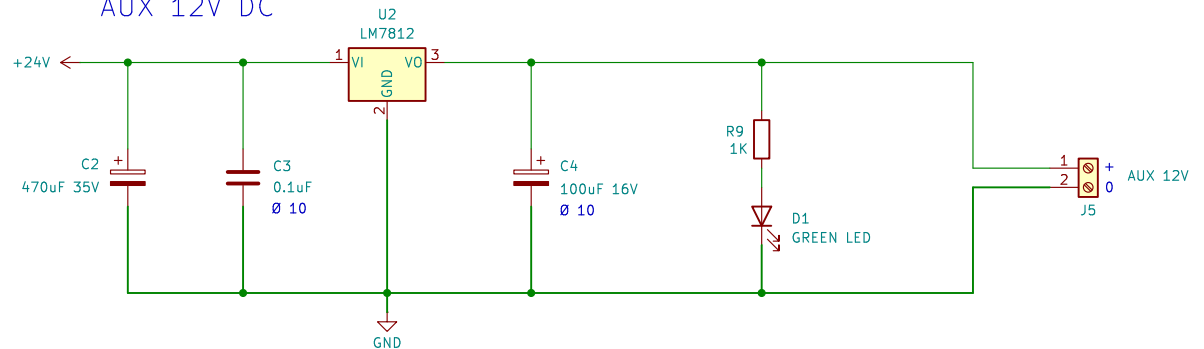
BETA VERSION – VALUES ARE NOT FINAL



External voltage sensing circuit (experimental)



AUX 12V DC



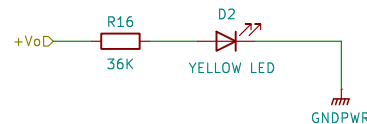
HV module modifications

XIPA-650CHVCX module (max 350V/70mA, 24W)

EC1: 470uF 35V polymer, 667-EEH-AZSV471UB
 EC2 capacitor: 2 x 22uF 350V, 647-UCY2V220MPD9
 EC3 capacitor (for negative mods): 2 x 22uF 350V, 647-UCY2V220MPD9
 D4: US3M 1KV 3A, 621-US3M-13 or UF5408 3A, 637-UF5408
 D5 (for negative mods): US3M 1KV 3A, 621-US3M-13 or UF5408 3A, 637-UF5408
 R26: 25mOhm 3W, 2512 case, 652-CRA2512FZR025ELF (Original value 0R008 2W JK8, 1812 case)
 Add one 1M resistor for each HV capacitors (594-5073NW1M000J).
 Heat Sink+Retaining Clip for TO220: Aavid 532-6236B

YH11068A Yollow module (do not work, too hot, thermal drift, 650V at startup)

C11 capacitor: 10uF 450V, 232-250CFX10MEFC10X1
 C12 capacitor (for negative mods): 10uF 450V, 232-250CFX10MEFC10X1
 D4: US3M 1KV 3A, 621-US3M-13 or UF5408 3A, 637-UF5408
 D5 (for negative mods): US3M 1KV 3A, 621-US3M-13 or UF5408 3A, 637-UF5408
 R26: 25mOhm 3W, 2512 case, 652-CRA2512FZR025ELF (Original value 0R010 2W)



By stef

Sheet: /
 File: TUBE-HV-PSU.kicad_sch

Title: Tube High Voltage Power Supply

Size: A4 Date: 2025-04-12

KiCad E.D.A. 8.0.8

Rev: 1.0b12

Id: 1/1