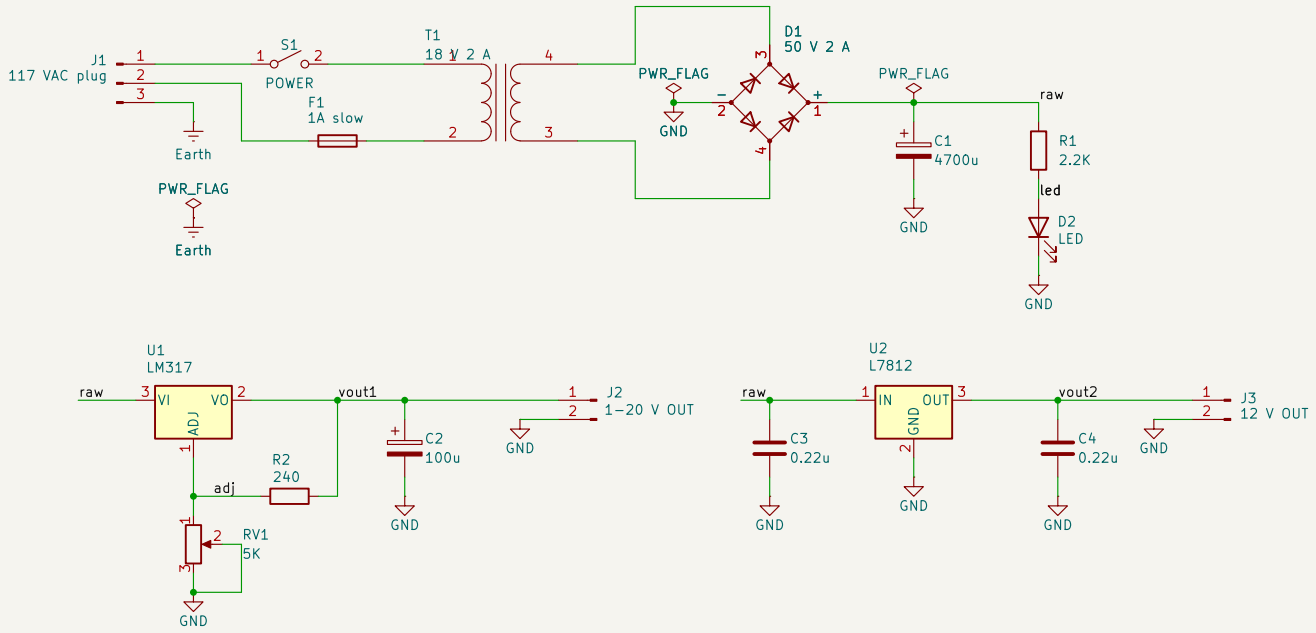


U1 output = 1.25 V x (1 + RV1/R2); RV1 5 k gives about 1.25 to 20 V (limited by the raw rail). U2 L7812 gives a fixed 12 V.

Heat–sink U1 and U2. C1 4700 uF 35 V; C2 100 uF 35 V; C3, C4 0.22 uF 50 V at the 7812 pins. R1 2.2 k 1 W + D2 power indicator.

Redrawn for QRPedia by NT7S
MAINS: 117 V AC primary. Build only with a fused, grounded enclosure
Source: EMRFD (Hayward, Campbell, Larkin) Fig 1.24, p. 1.15. Errata: text–only (p. 1.15)
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Title: LM317 variable (1–20 V) and 7812 fixed 12 V supply

Size: A4	Date: 2026–10–31	**Rev: A**
KiCad E.D.A. 10.0.8		Id: 1/1