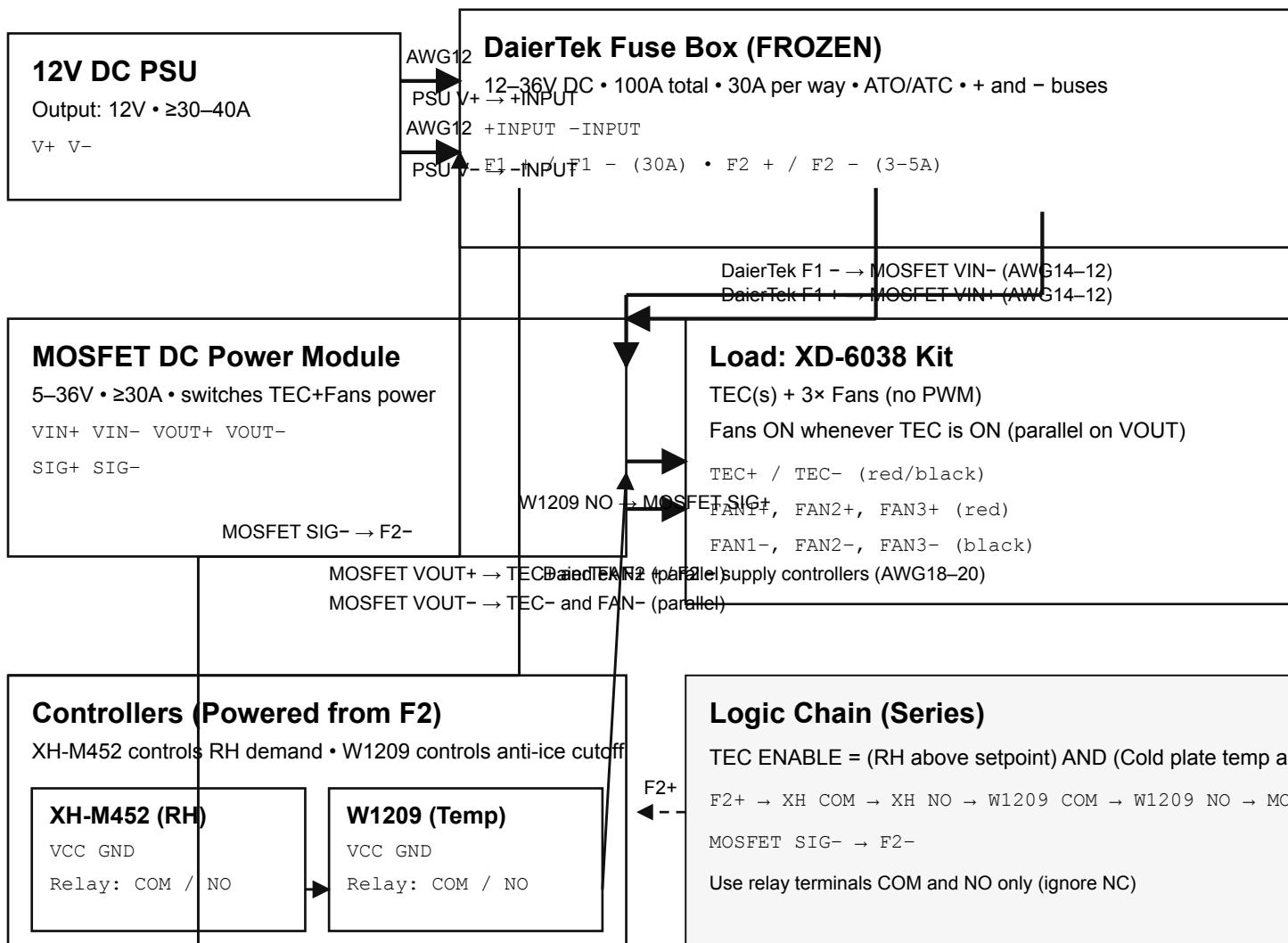


TEC Dehumidifier MVP — Wiring (DaierTek Fuse Box + Fans)

Frozen parts: DaierTek Fuse Box (100A total, 30A/way, ATO/ATC) • PSU 12V ≥30–40A • MOSFET ≥30A • XH-M452 + W1209

Legend: Thick lines = high current (AWG12–14). Thin lines = low current (AWG18–20). Dashed = logic chain.



Build Notes (MVP)

- Install fuses: F1=30A (TEC+Fans), F2=3–5A (controllers). Keep other slots empty.
- 1-TEC mode: disconnect TEC2 + and – and insulate. 2-TEC mode: reconnect.
- Fans must be wired to MOSFET VOUT so they run whenever TEC runs.
- Keep high-current wires short; tighten all screw terminals firmly.

Print tip: Save as wiring.svg and open in Preview/Inkscape to print or export PDF. All "ground" references mean PSS negative (0V).