

Hot-Swap Bring-Up Checklist (30+ checks)

Scope probes: VIN, VOUT, ILIM/SENSE, TIMER, GATE, PG. Confirm probe grounds and bandwidth.

Startup: verify ramp shape vs dV/dt ; I_{inrush} within budget; no overshoot or PG chatter.

Faults: short-to-GND pulse (SOA), OC limit, OVP/UVLP response, thermal trip; policy (retry/latch).

ORing: backfeed & reverse tests; source switchover; diode race conditions.

Thermal: steady-state dissipation; worst-case ambient; airflow; heatsinking; layout hotspots.

Record waveforms and parameters; change one variable at a time.