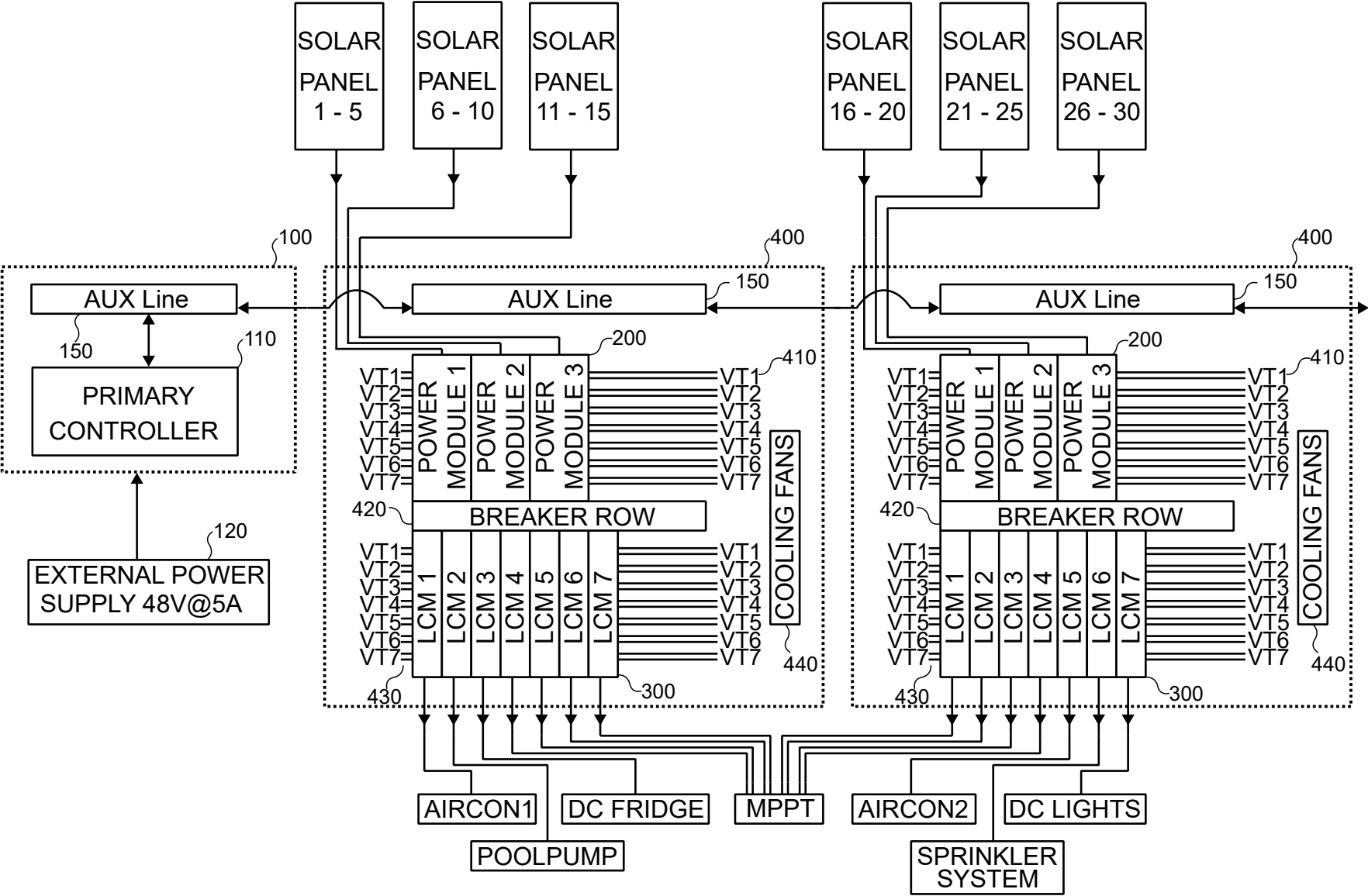


FIG 1: System-Level Block Diagram of Modular DC Power Distribution System



**FIG 2. Central Controller Unit (100)**

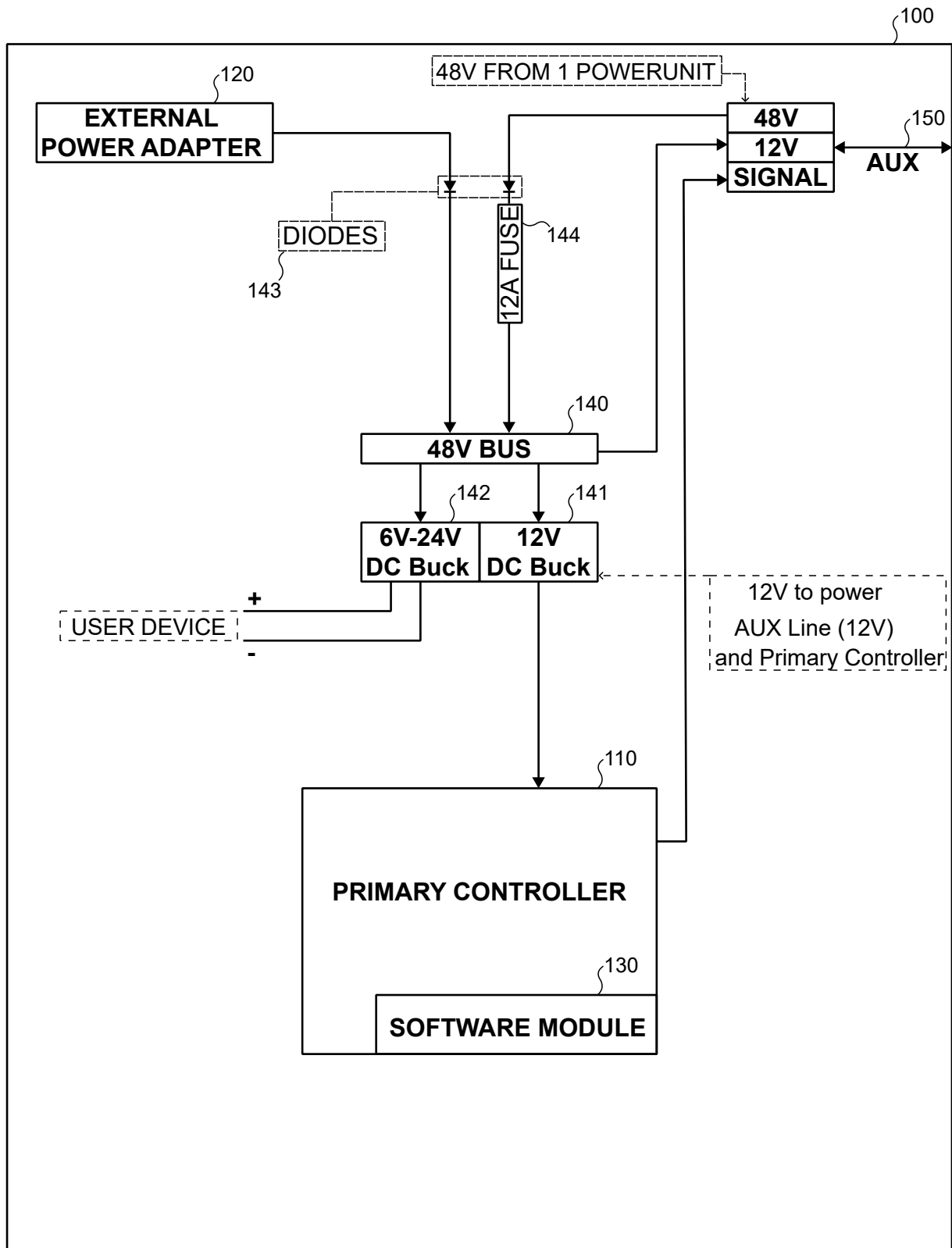
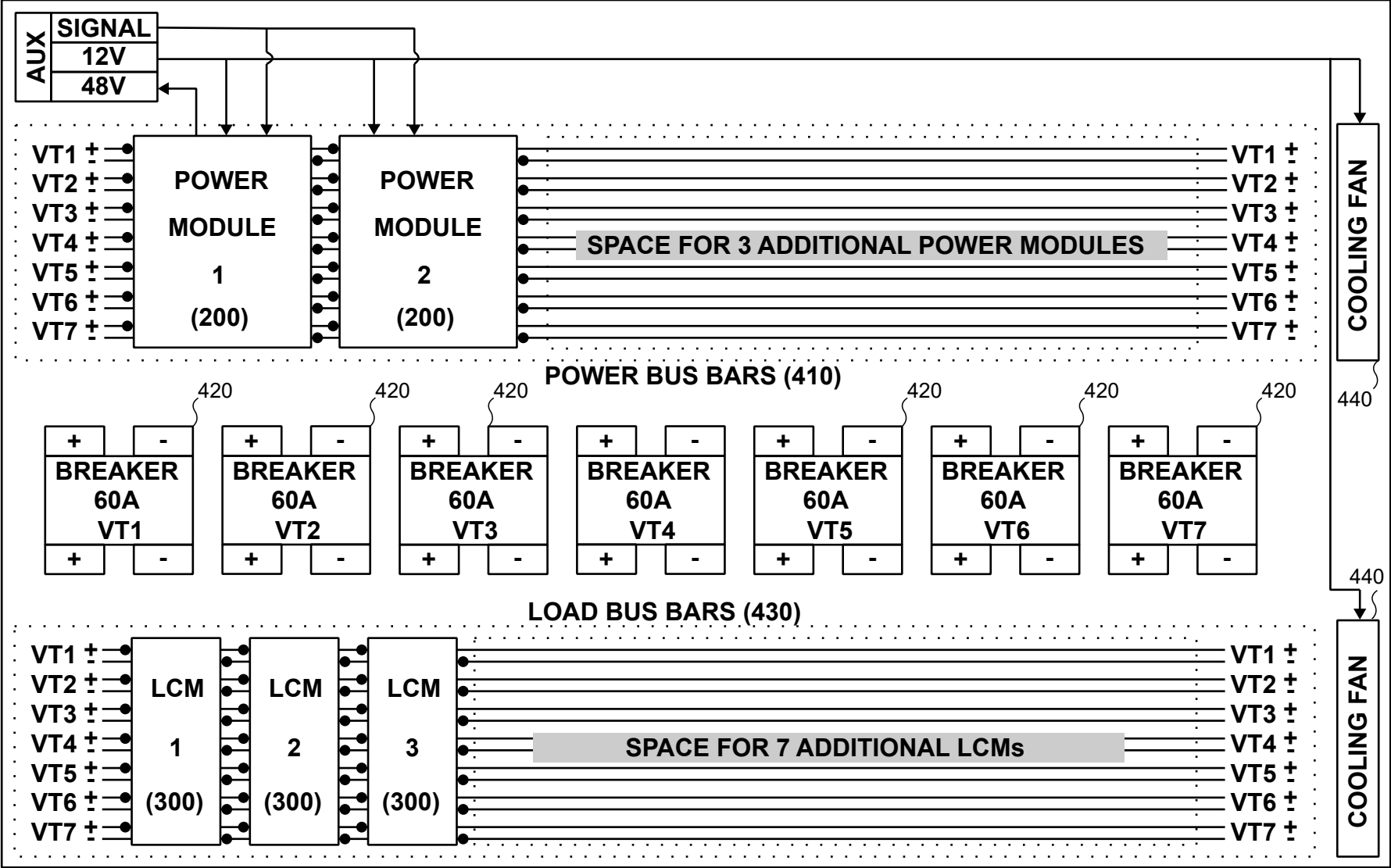


FIG 3: HIGH-VOLTAGE-DISTIBUTION-CASE (400)

400



**FIG. 4: POWER MODULE FUNCTIONAL BLOCK DIAGRAM**

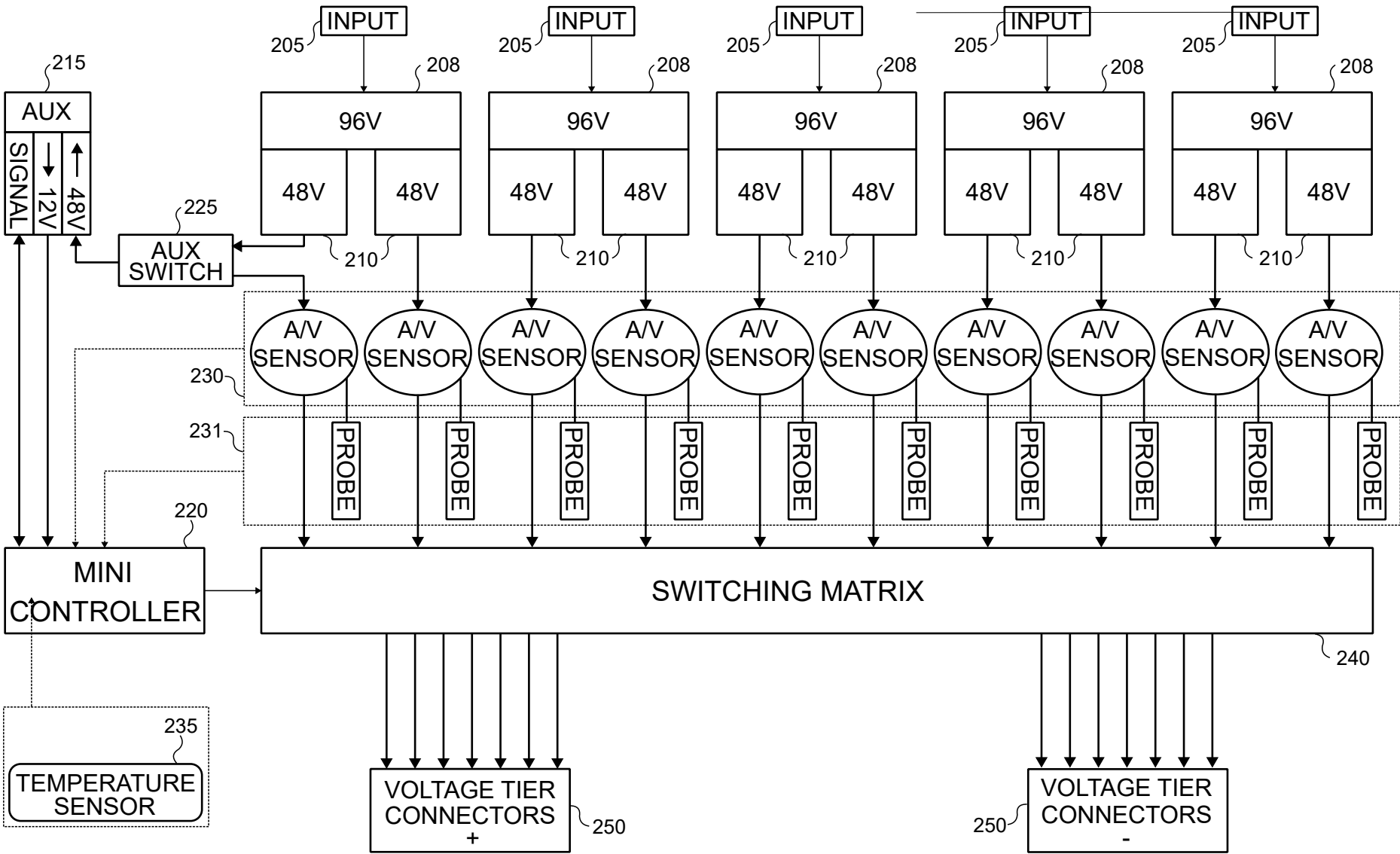


FIG. 4A: SWITCHING MATRIX FIRST EMBODIMENT (500)

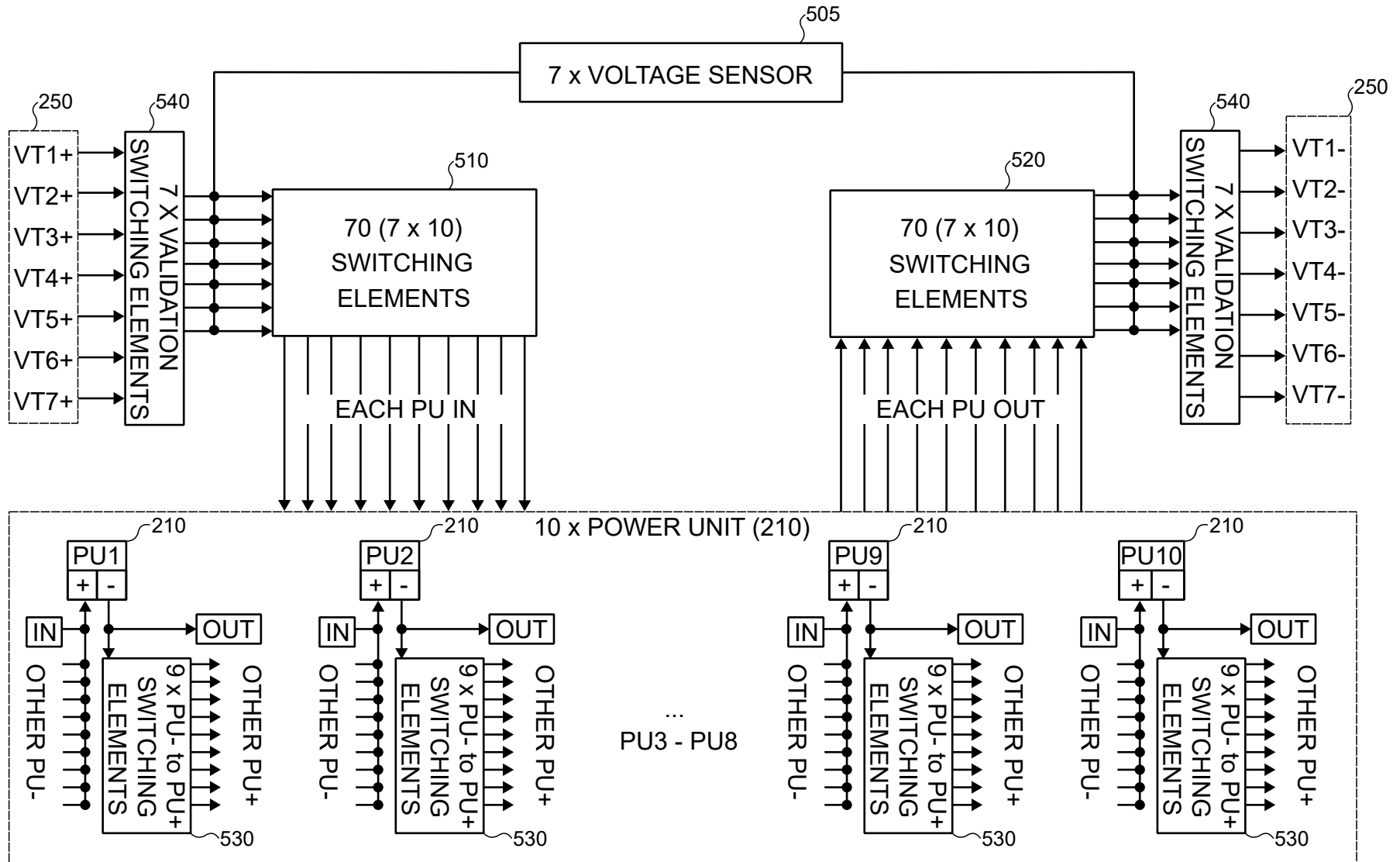


FIG. 4B: SWITCHING MATRIX SECOND EMBODIMENT (550)

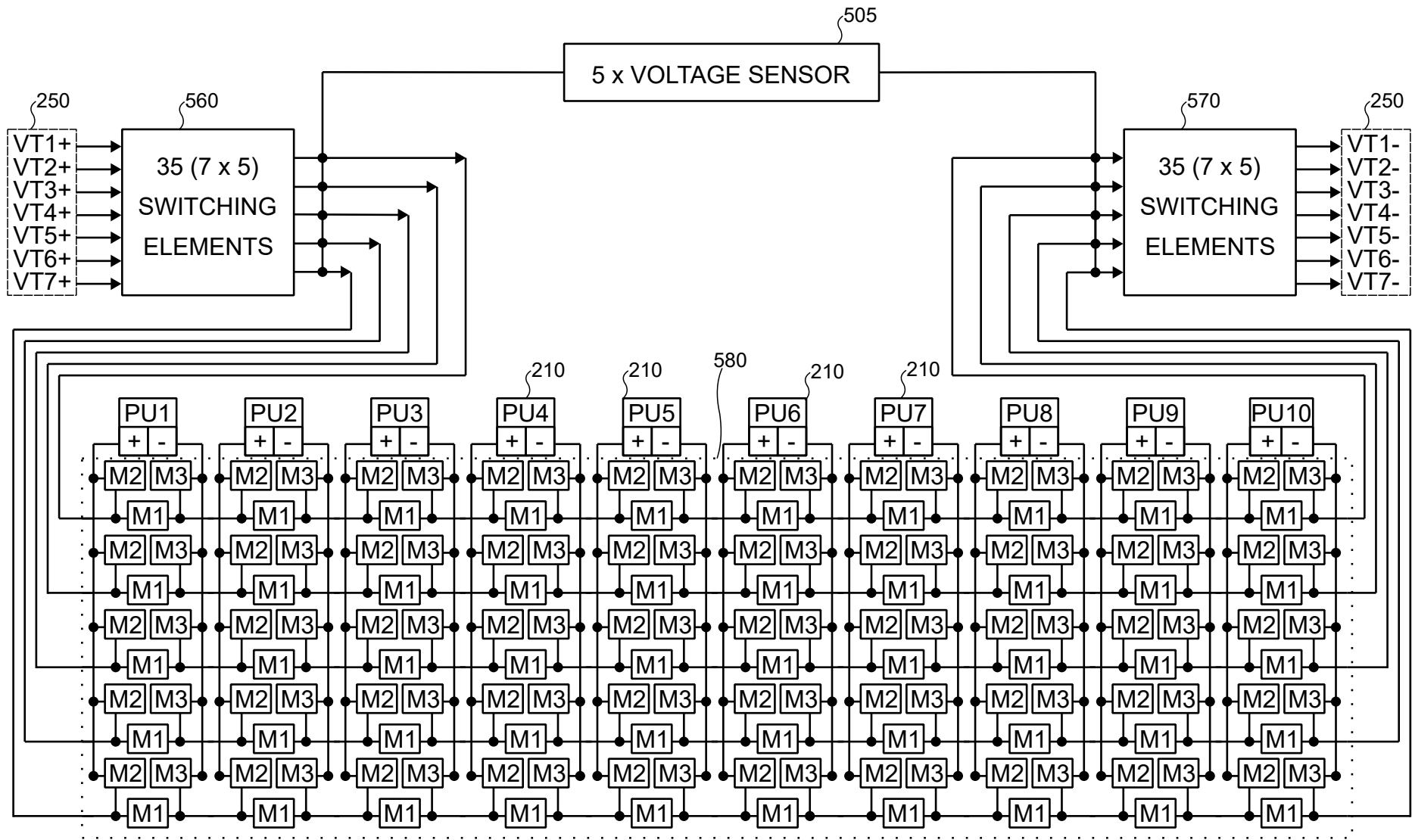


FIG 5. LOAD CONNECT MODULE FUNCTIONAL BLOCK DIAGRAM

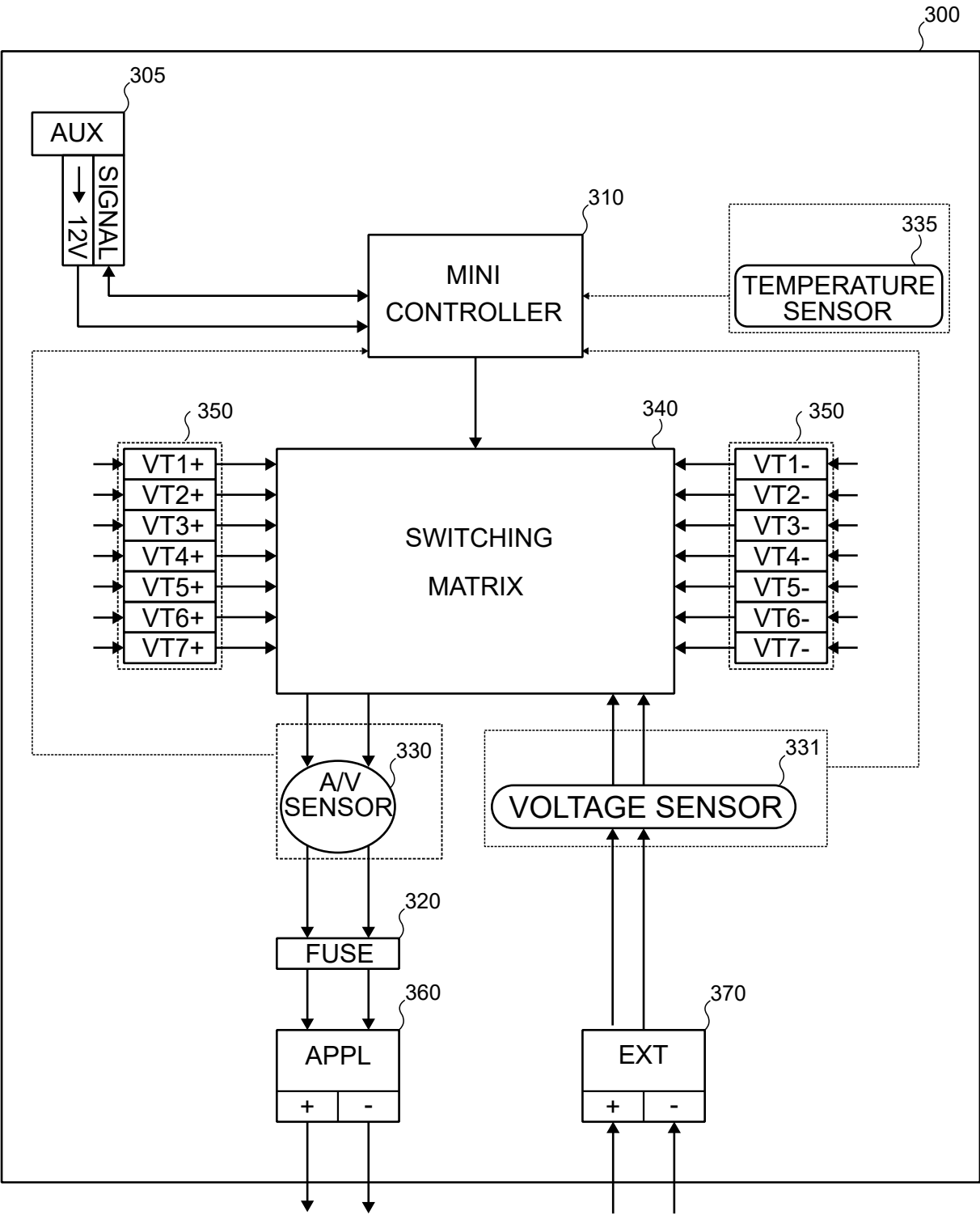


FIG. 6A: Main Logic Flowchart of Tier Assignment and Reconfiguration Process

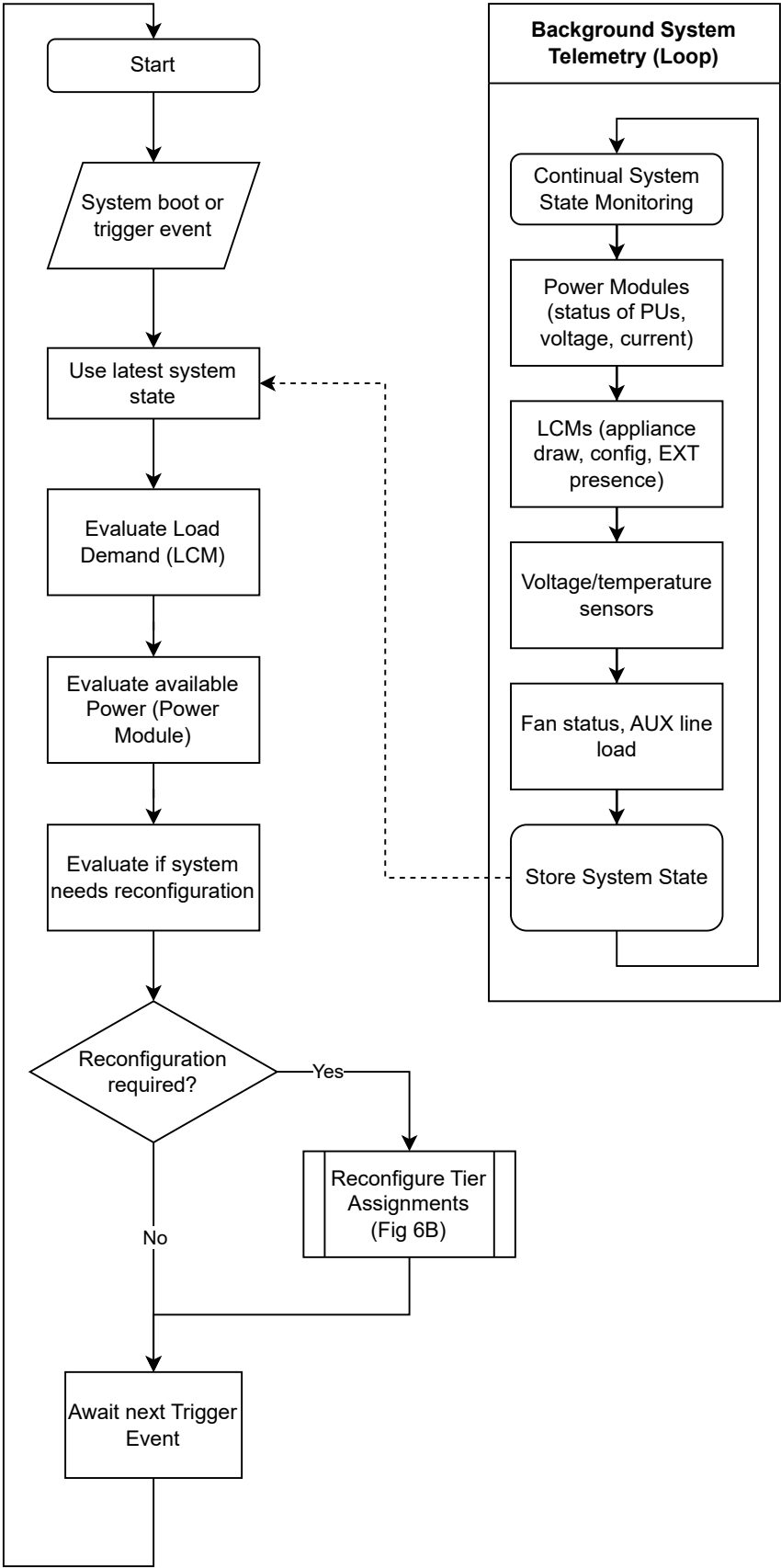


FIG. 6B – Reconfiguration & Assignment Flow

