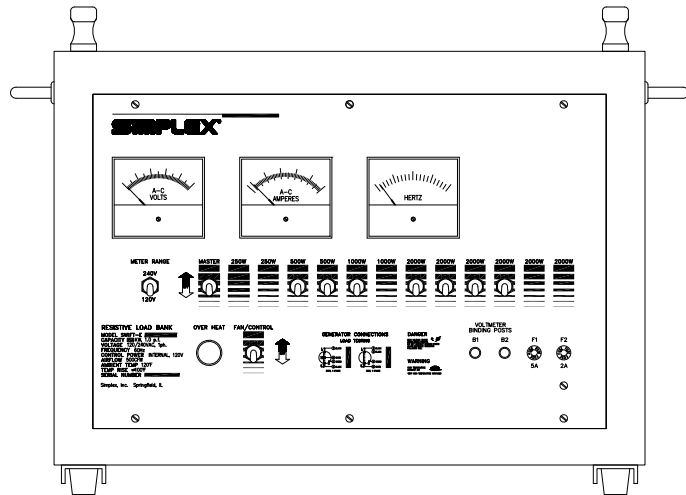


Swift-e

Portable Load Bank

GENERAL DESCRIPTION

Simplex Swift-e Load Banks provide a variable test load which may be applied to battery systems, AC/DC rectifiers, power supplies, battery chargers, UPS systems, AC/DC generators, and other AC/DC sources. The Swift-e may be AC and/ or DC rated per the specification nameplate on the control panel. Load capacity and load step resolution varies with the specific model. The Swift-e contains specially designed power resistors, high temperature silicone insulated power wiring, industrial toggle switches, high interrupting capacity fuses, and load connection cables or studs. The Swift-e Load Bank is a completely self contained and portable, rugged test instrument. A complete parts legend is supplied in the drawing section of this manual. Always consult the parts legend drawing when ordering parts for a Swift-e Load Bank. The above illustration is for example only. See the enclosed drawings for your Load Bank.



WARNING
All cooling failures must be immediately investigated and corrected or Load Bank damage will occur!

WARNING
Ground must be connected prior to operation!

INSTALLATION/OPERATION

The test source is connected to the Load Bank at the load cables or connection studs. On non-standard models fan/control power is supplied to the Load Bank via the control power cable (check the control drawing supplied with the unit).

Standard Swift-e Load Bank elements are cooled by two 240 CFM fans and the Load Bank operator must make allowances for the warm Load Bank exhaust air. The fan and control system are energized when the fan/control power switch is placed in the On position. The load steps are energized manually with the load step switches.

OVER TEMPERATURE FAILURE

If the Load Bank exhaust air exceeds the setpoint of the exhaust temperature switch (EXTS), a cooling failure is initiated. Standard Swift-e Load Bank control circuitry de-energizes the load steps during a cooling failure. Non-standard Swift-e Load Banks do not de-energize load steps during a cooling failure. Cooling failure relay contacts in series with the cooling failure lamp close and the lamp is illuminated. Investigate all cooling failures!

LOAD BANK MAINTENANCE

All electrical connections should be tightened every 6 months. Cooling fan motors are permanently lubricated and do not require maintenance.