

# PowerStar-110

## 110 KW Digital Load Bank with Network Capability

### Description

The Simplex PowerStar Portable Load Bank is an ultra-compact, lightweight, versatile test instrument specially designed for manufacturers, dealers and users of small AC power systems, to 110KW nominal. It is suitable for testing engine generators, wind generators, UPS systems, ground power units, auxiliary power units, static inverters or virtually any other AC power source on the production line, in the service shop or in the field. It can be applied at all common AC voltages to 480V maximum, 50-60 Hertz, single or 3-phase.

The Powerstar is a digitally controlled load bank with network capability. All control is via a hand-held touchscreen controller connected to the load bank via a supplied RS-232 network cable. The load bank includes a digital power transducer with meter displays on the touchscreen. Load applied via a touchscreen keypad in manual steps or an auto-jog function. Any number of Powerstar Load Banks can be networked together via RS-232 cables connected from the "out" connector on the first unit to the "in" connector on the next, and then "out-to-in" in succession until the desired number of units are connected. All control and metering is provided from a single hand-held controller. All instrumentation values for the total network are summed and displayed on the master controller.

The PowerStar is highly portable and easily transported to the job site. The Load Bank includes casters, lifting and moving handles. Power connections are plug-in to Cam-Lok connectors. Control and cooling fan power is obtained from a common 115v, 15A outlet via the included connection cord.

The PowerStar is a fully self-contained and portable testing system. It includes integral cooling fans and control circuits, which can operate from a supplied 120V control power cord.

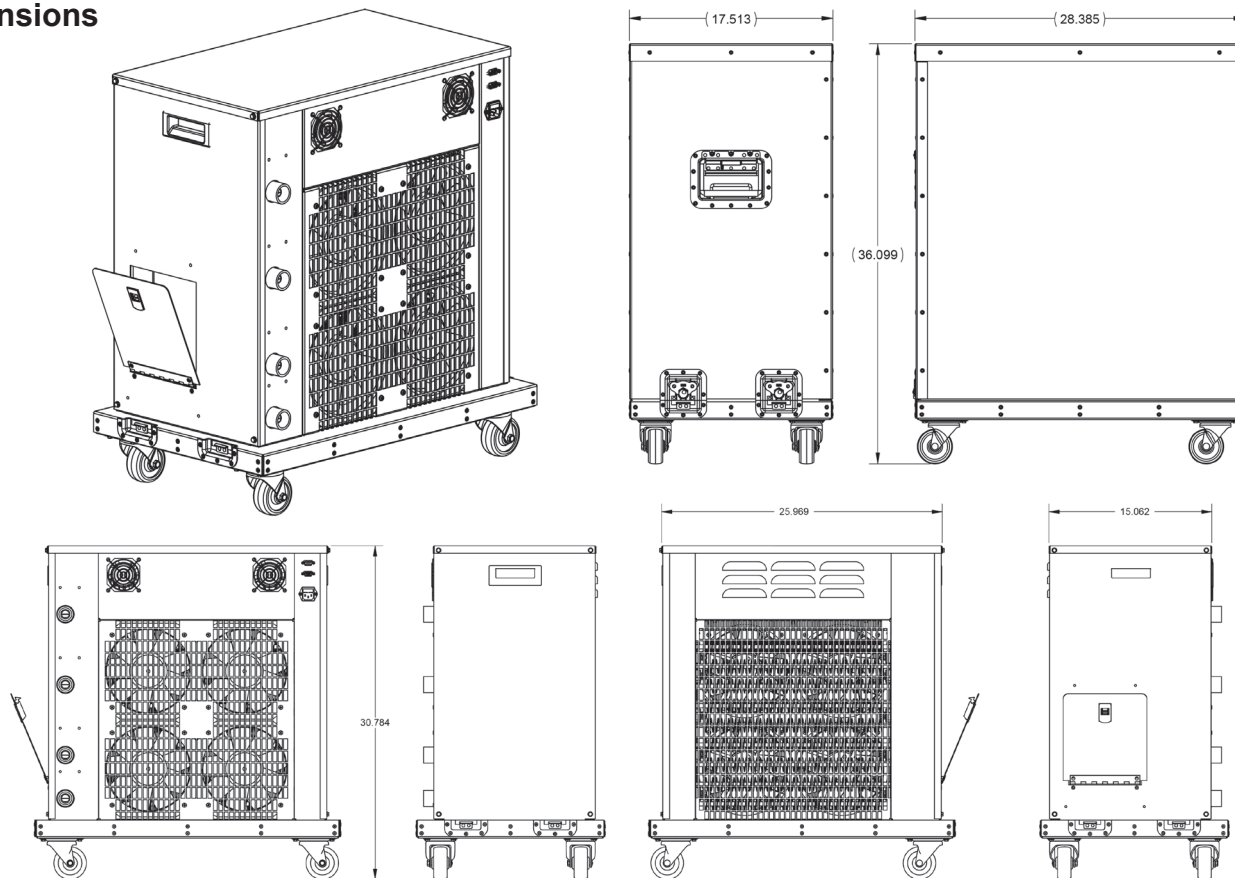


### Features

- New: Increased capacity to 110KW
- UL Listed, United States and Canada
- Lightweight and compact
- Portable, self-contained
- "Powr-Web" elements
- Branch circuit fuse protection of load elements
- Magnetic contactor control of load
- Digital Load Control: Manual –or– Auto-Jog feature
- Use at all common 50 or 60 Hertz voltages, to 480V AC
- Digital Power Transducer, standard: Volts, Amps, Frequency, Kw
- 150°C XLP insulated power wiring
- Cam-Lok power connectors
- Operate fan and control circuits from a common 120V wall outlet, 15' cord provided
- Forced air cooled, integral cooling fans
- Fan motors protected by fuses
- Control circuits fused
- Comprehensive malfunction detection system:
  - Overtemperature and fan failure protection
  - Overvoltage protection
- Continuous duty
- NEMA-1 enclosure
- Aluminum "slip-over" cover with handles for added protection while transporting



**Dimensions**



PowerStar 110 with aluminum “slip-over” cover with handles for added protection while transporting.

**Capacity Detail**

Model	FLA		KW DETAIL		
	240V	480V	240V/480V	208/416V	240V, 1-ph
PowerStar	264	132	110	82.5	73.3

**Fan/Control Power**

External, 115V, 1-ph., 60Hz, 15A service, 15' cord with plug provided

**Voltage**

Dual Voltage, nominal 240/480V AC, 3-phase  
 208-240/416-480V AC, 3-phase, 60Hz  
 190-220/380-460V AC, 3-phase, 50Hz  
 110-240V AC, 1-phase, 50-60Hz

**Load Steps**

Digital load control, 5kw resolution

**Frequency**

50–60Hz

**Duty Cycle**

Continuous  
 Temp Rating  
 125° F max intake air temp  
 Nominal 110° F rise

**Weight**

125 lbs.

