

PowerStar

50KW, 100KW Portable Load Bank

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 100KW 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, 50-60-400 Hertz, single or 3-phase.

At less than 100 pounds and less than seven cubic feet, the PowerStar 50 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, both of which can operate from generator power up to 240V, 60 Hertz (to 480V, 60 Hertz optional). Above 240V or at 50/400 Hertz, the load bank fan and control circuits can be powered from a 15A, 120V wall outlet. An external power cord with plug is included.

The **PowerStar** control panel includes test instrumentation, load application switches, operation indicator lights and fan/control power switch. The load bank includes rugged "Powr-Web" load elements, load control contactors, branch circuit fuse protection of the load elements, high temperature power wiring, cooling fans with circuit breaker, control power fuses. The load bank is protected against fan failure, high intake air temperature, high exhaust air temperature, and overvoltage. The unit includes Cam-Lok power connectors and a 15' control/fan power cord (115v).

Features

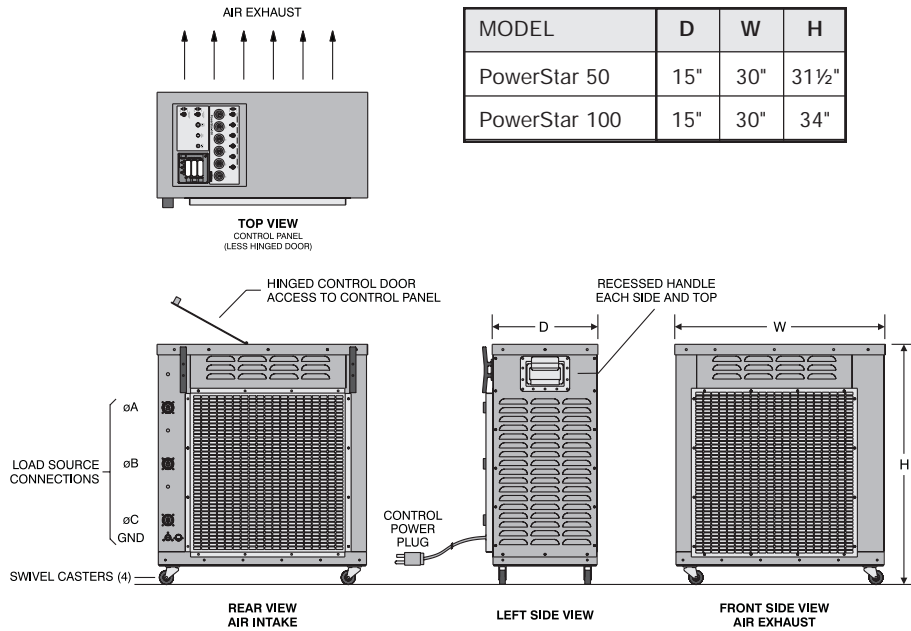
- Lightweight and compact
- Portable, self-contained
- Branch circuit fuse protection of load elements
- Magnetic contactor control of load
- Apply/remove load steps in small increments
- Use at all common 50, 60 or 400 Hertz voltages, to 480V AC
- Digital Power Meter, standard: Volts, Amps, Frequency, 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
- Casters and handles provided



Model	KW , 1.0 P.F.				LOAD STEPS
	240/480V, 3-phase	208/416V, 3-phase	190/380V, 3-phase	240V, 1-phase	KW @ 240/480V, 3-phase
PowerStar 50	50	37.5	32	33	5, 10, 10, 25
PowerStar 100	100	75	63	67	5, 10, 10, 25, 50

SIMPLX®

Dimensions, Key Features and General Specifications



Note: The model shown above is the PowerStar 100.

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

Frequency

50-60-400Hz

Duty Cycle

Continuous

Temp Rating

125° F max intake air temp
Nominal 110° F rise

Power Connection

Cam-Lok connectors,
3xE1016 connectors,
#2-y/0, to 400A
Ground = E1015

Options

- Running Time Meter
- Vinyl Cover
- Weatherproof Enclosure
- 400Hz Meters
- 400Hz Internal Power