

PRL500F

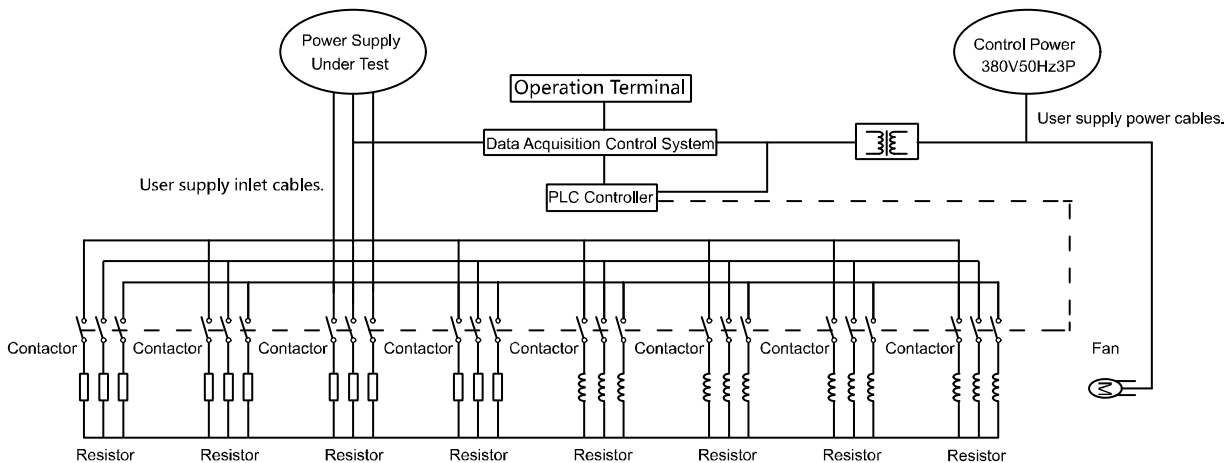
Resistive Load Bank

Resistive load bank is a type of detection and maintenance equipment for power supply, for example generator set, UPS and transmission facility. It can be used for loading ability test of a new genset as well as daily inspection of a backup genset.

Model	PRL500F
Tested voltage	AC380~415V 3P
Tested frequency	50Hz
Load type	Resistive
Rated power	500kW
Power factor	1.0
Connection type	Star (3P&4 wires)
Load precision	±3%
Phases imbalance	≤3%
Duty	Continuous
Cooling system	Forced air cooling
Control method	Manual
Insulation class	F
Ingress protection	IP23 (Control cabinet: IP54)
Structure type	Stationary
Power supply	380~415VAC 3P&4W



Working Principle



Design Standards

- ISO 8528
- GJB 1488-1992
- GJB 235A-1997
- YD/T 502-2007
- GB/T 1029-2005
- GB/T 3797-2005

Test Items

- Continuous running
- Sudden load change
- Wind protection
- Starting capability
- High tem. capability
- Rainproof capability
- Safety functions

Protection Functions

- Resistor high temperature
- Air supply volume by fan
- Fan malfunction
- Over voltage
- Under voltage

PRL500F

Resistive Load Bank

Resistors System

Rated power	500kW
Withstand voltage	AC2000V/5S
Resistance precision	±10%
Insulated resistance	DC500V 100MΩ/Resistor
Working voltage	0 ~ 415VAC
Overload capability	2000kW/s
Working temp.	-15°C~65°C
Highest temp.	300°C(Surface of resistor)
Ingress protection	IP00
Temp. coefficient	≤±400ppm/°C
Resistor material	Alloy

Cooling System

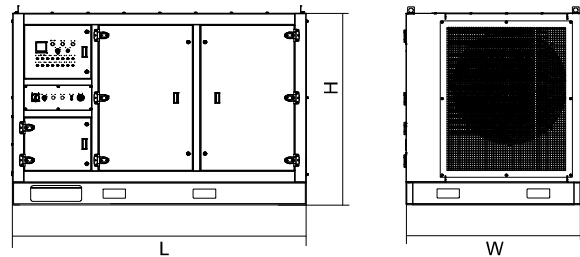
Fan type	Axial
Fan number	1
Fan power	3.5kW
Working voltage	0 ~ 415VAC
Configures motor	AC motor
Working tem.	-15°C~65°C

Control System

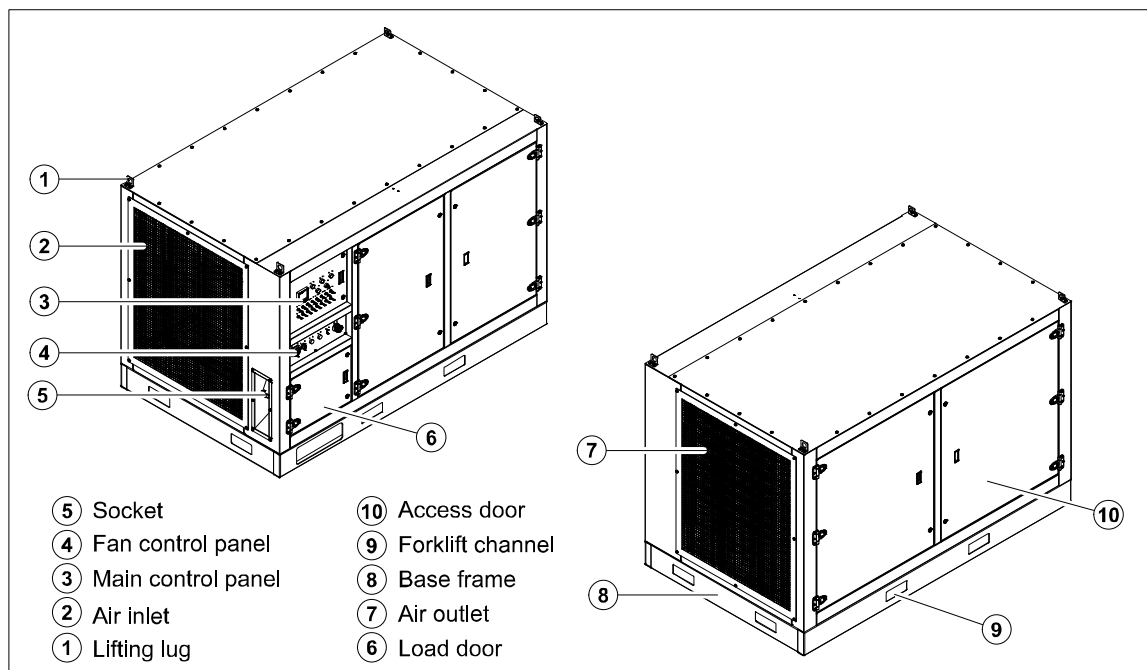
Power cable	RV series
Electric control cable	Refractory, bilayer guard
Plug	Waterproof quick plug
Tem. alarm set	TBD
Air supply alarm set	TBD
Loading resistors	AC contactors control
Loading manually	Toggle switch
Loading automatically	PLC control (optional)
Auto data acquisition	Econtrol instrument

Dimension & Weight

Dimension (LxWxH)	Weight
2050x1400x1600mm	900kg



Overall Drawing



Control Panel

