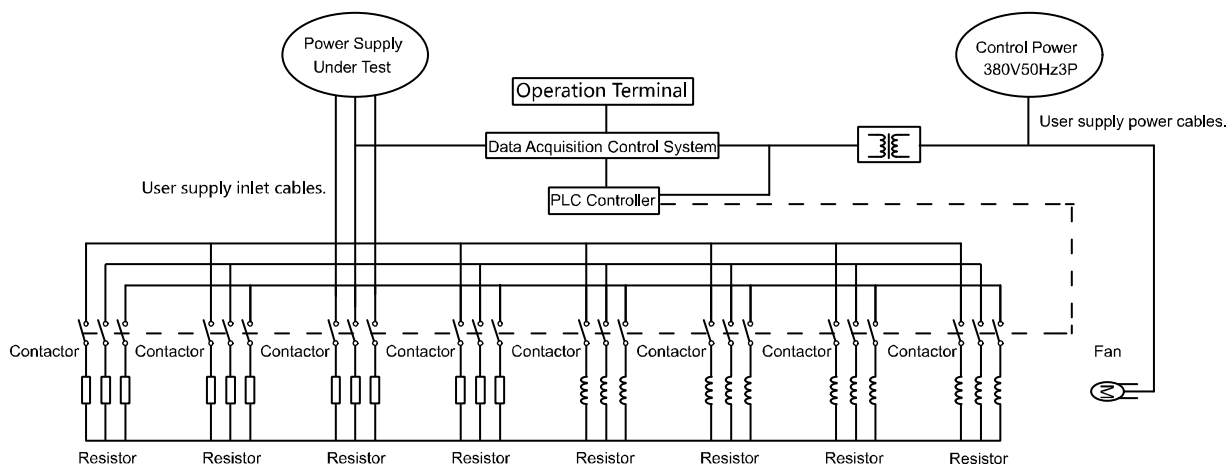


Resistive load bank is a type of detection and maintenance equipment for power supply, for example generator set, UPS and transmission facility. It can be used for loading ability test of a new genset as well as daily inspection of a backup genset.

◆ Working Principle Diagram :



◆ 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

◆ Protection Functions:

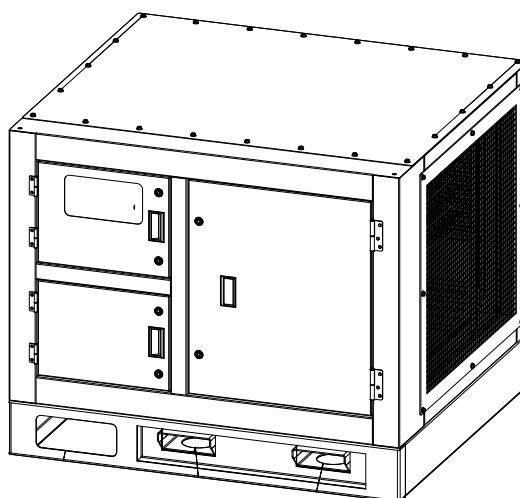
- Resistor high temperature
- Air supply volume by fan
- Fan malfunction
- Over voltage
- Under voltage

◆ Technical Data:

Model	PRL100F
Tested voltage	AC380~415V 3P
Tested frequency	50Hz
Load type	Resistive
Rated power	100kW
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	Auto
Control software	Econtrol
Insulation class	F
Ingress protection	IP54
Structure type	Stationary
Power supply	380~415VAC 3P&4 wires(with regulator) , mains connector reserved
Application	Marine and inland diesel genset, inverter and UPS

◆ Malfunction Alarms:

- Low air supply volume
- Load high temperature



➤ Resistors System :

Rated power	100kW
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 :

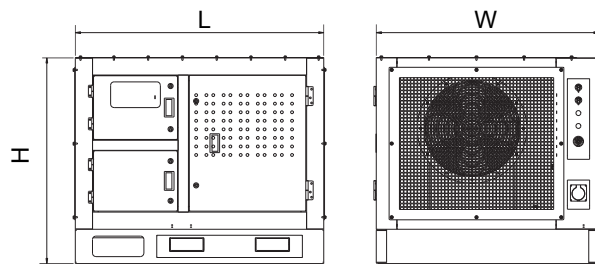
Fan type	Axial
Fan number	1
Fan power	1.1kW
Working voltage	0 ~ 415VAC
Configures motor	AC motor
Working tem.	-15°C~65°C

➤ Control System :

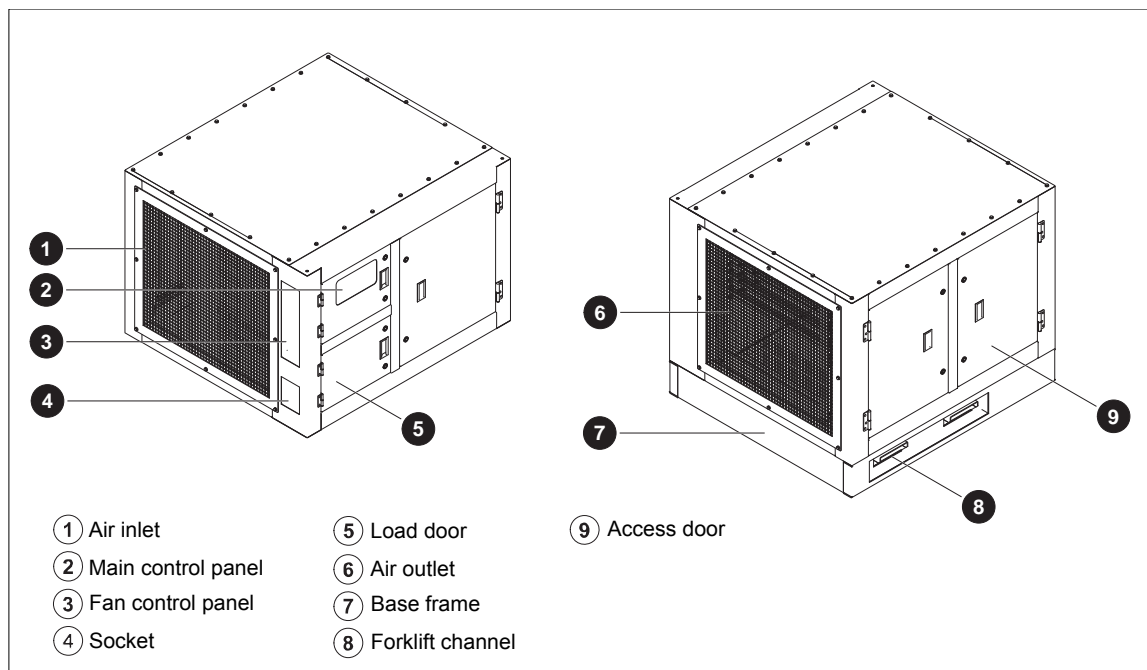
Power cable	RV series
Electric control cable	Refractory, bilayer guard
Plug	Waterproof quick plug
Tem. alarm set	TBD
Air supply alarm set	TBD
Loading resistors	AC contactors control
Loading manually	Toggle switch
Loading automatically	PLC control
Auto data acquisition	Econtrol instrument

➤ Dimension & Weight:

Dimension (LxWxH)	Weight
1450x1300x1200mm	720kg



◆ Overall Drawing :



◆ Control System Show :

