

# PRL1000F

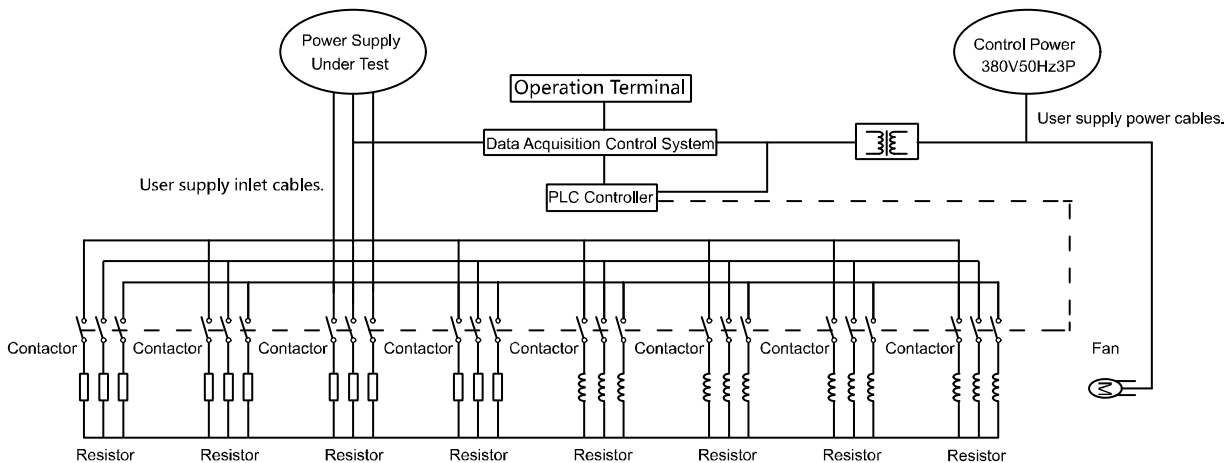
## Resistive Load Bank

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              | PRL1000F                     |
| Tested voltage     | AC380~415V 3P                |
| Tested frequency   | 50Hz                         |
| Load type          | Resistive                    |
| Rated power        | 1000kW                       |
| 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

# PRL1000F

## Resistive Load Bank

### Resistors System

|                      |                            |
|----------------------|----------------------------|
| Rated power          | 1000kW                     |
| 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                      |

### Control System

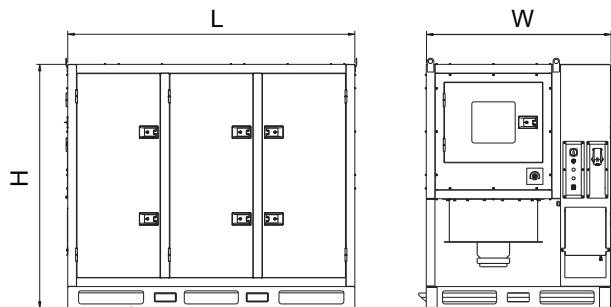
|                        |                           |
|------------------------|---------------------------|
| Power cable            | RV series                 |
| Electric control cable | Refractory, bilayer guard |
| Plug                   | Waterproof quick plug     |
| Tem. alarm set         | 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       |

### Cooling System

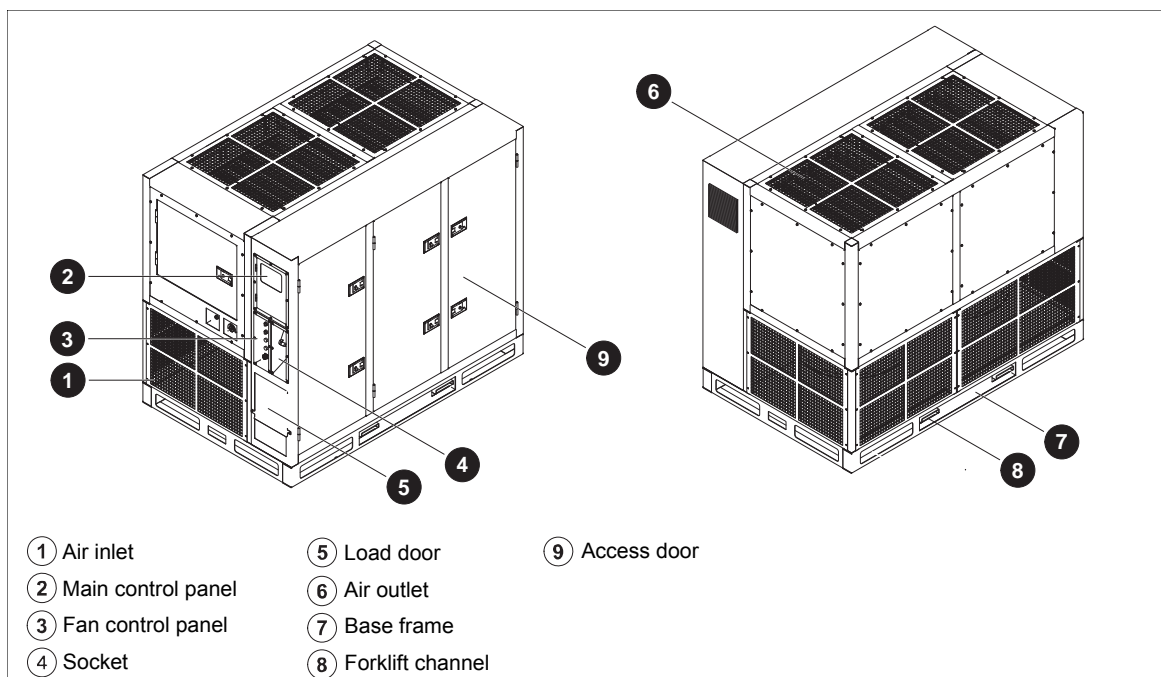
|                  |            |
|------------------|------------|
| Fan type         | Axial      |
| Fan number       | 2          |
| Fan power        | 6.0kW      |
| Working voltage  | 0 ~ 415VAC |
| Configures motor | AC motor   |
| Working tem.     | -15°C~65°C |

### Dimension & Weight

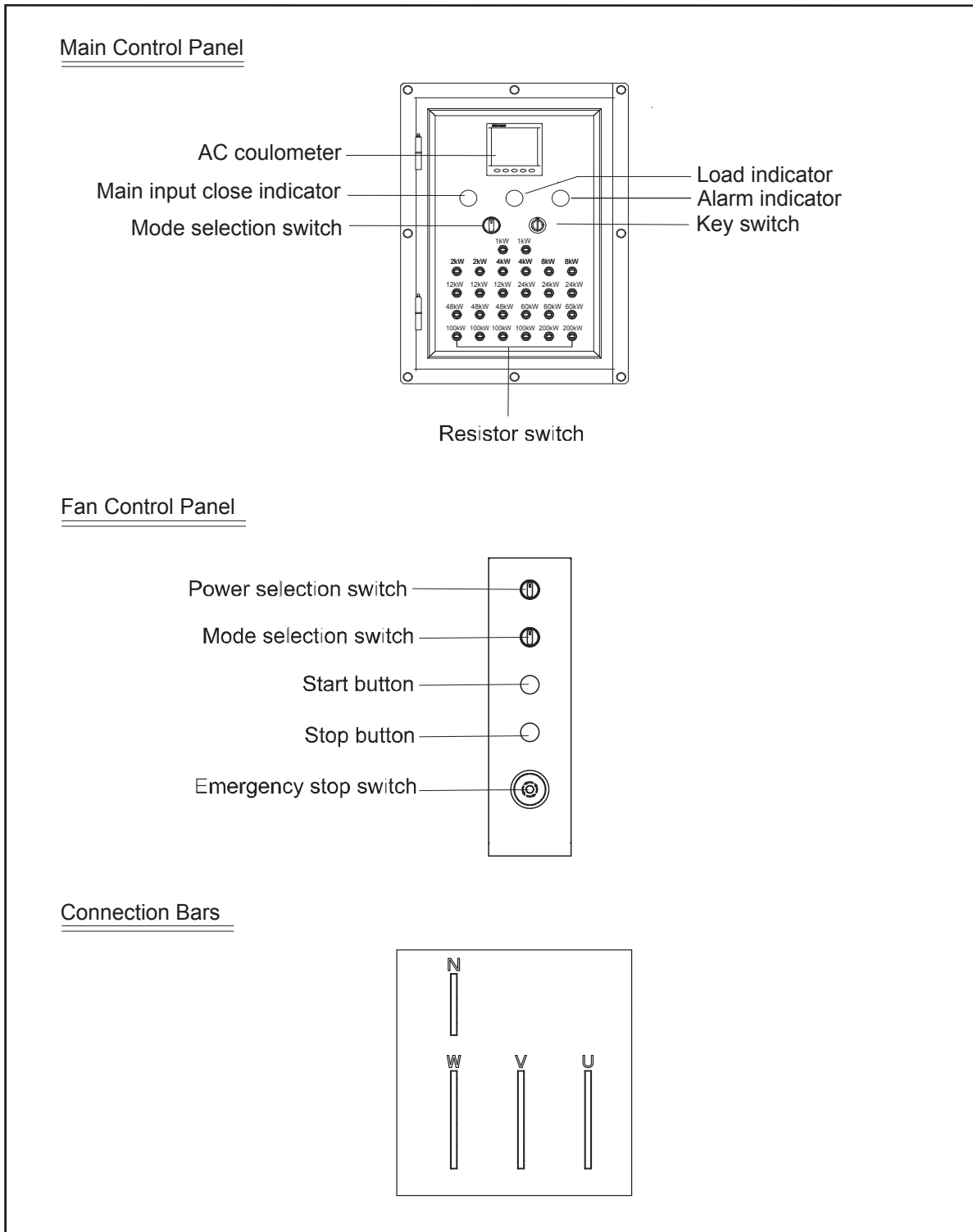
| Dimension ( LxWxH ) | Weight |
|---------------------|--------|
| 3000x1600x1900mm    | 1800kg |



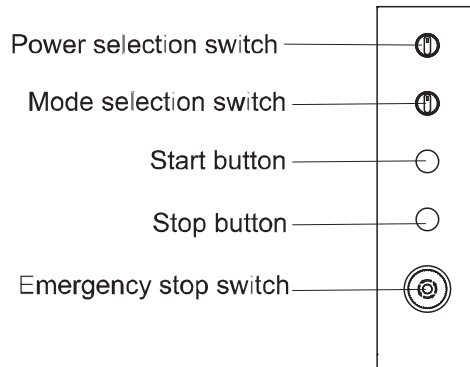
### Overall Drawing



### Control Panel



### Fan Control Panel



### Connection Bars

