

GEF Series 100-1000kw



GEF Series Load Cabinet Type S

Mainly used in emergency generator sets, data centers, wind power industry, uninterruptible power supply (UPS), energy storage equipment, test equipment, electric power and other load test occasions of pseudo simulation load test.



- Test the output power, load carrying capacity and all electrical parameters of all kinds of generator sets;
- Consisting of two parts: measurement and control and load cabinet, it realizes intelligent and automatic special testing;
- Automatically generates charts, curves and test reports, providing scientific testing means for genset equipment.



Emergency equipment power supply OEM supporting
and application solutions professional service provider

Specificities

- » Industrial grade powerful axial fan with low noise and low temperature rise;
- » The original power consumption is made of special alloy resistor material, strict process production and manufacturing, good heat dissipation performance, high stability;
- » The system can be controlled using a host computer, and test functions such as automatic loading can be performed by inputting the test power, and the electrical parameters can be monitored in real time;
- » Different levels of protection designed for different application environments;
- » User-friendly HMI customized to the actual application;
- » Flexible design, customized production to meet customer non-standard requirements;
- » Load Bank Case Material and Coating Process;
- » Cold-rolled steel plate, industrial-grade standard spray coating, with extremely strong moisture, heat and corrosion resistance;
- » According to the requirements of national and military testing standards, 25% can be tested. 50%; 75%; 100%; 110% of the load is put into operation in equal segments, or the power segments can be adjusted according to customer requirements to achieve application simulation of real power under different working conditions.

Performances

Operating Environment

- » - Ambient temperature: -20°C-50°C
- Ambient humidity: <95% (non-condensing)
- Altitude: <2000m
- Power factor: 1.0, The external inductor can adjust the power factor
- Test voltage: AC 400/230V 50Hz
- Error rate: $\leq \pm 3\%$
- Working mode: continuous work
- Load Characteristics: Pure resistive load (inductive option)
- Control power supply: AC 220V
- Fan power supply: AC 400V, three-phase

Product Description

- » - The corresponding load indicator on the display lights up when loaded, real-time monitoring of loaded data.
- Each output is controlled by contactor, thermal relay or circuit breaker, and provides perfect protection functions of over-current, over-voltage, over-load and over-heat.
- There is no need to worry about the problem of heat dissipation failure or resistor burnout caused by incorrect wiring of the fan. The system is equipped with a phase sequence protector that automatically switches the fan's forward and reverse rotation according to the wiring phase sequence.

Load Bank Selection

Remark:	Model suffix: S1=Power factor 1.0,S2=Power factor 0.8;S=Manual loading,Z=Automatic loading;PLC brand:S=Schneider,X=Siemens;0=No other configurations,C=With test bench;
Load Composition Composition:	Load Bank(Cabinet+Transformer Copper Row+Contactors+Resistors+Axial Fans+Auxiliaries)+Tester Set(2 options)+5KW Adjustable Kit+Automatic Cooling+Dual Voltage Switching+Heat Dissipation Fan Set+PLC+Touch Computer+Desktop Computer Components(Optional)
Standard Configurations:	50Hz Load Cabinet = Cabinet + Contactor Resistor + Transformer Copper Row + Pushbuttons + 50Hz Fan Set + Accessories + Tester Set (3432B or 8961F2); Power Factor 1.0;
Optional Configurations:	5KW optional kit, auto-cooling, dual-voltage switching, 60Hz fan pack, desktop computer kit, PLC auto-load pack, touch computer, etc;
Scope of use:	Test power supply: three-phase three-wire Δ 380-415V / three-phase four-wire Y 600-690V rated Δ 400V/ Y690V ,Frequency: 50/60Hz, Default control power supply utility: three-phase four-wire 400/230V 50Hz;
Main features:	Basic configuration type for manual loading button, general optional configuration of dual-voltage switching automatic, 60HZ fan, computer components; manual optional 0-5KW adjustable, fan automatic cooling stop; Automatic function PLC is mandatory, optional touch computer, or desktop computer components;
Cooling Method:	Side air intake, top exhaust;
Lifting Method:	Lifting method: lifting hole at the top, forklift hole at the bottom, sliding casters;

Product Showcase



-The test system utilizes the comprehensive measurement function of the instrument to develop special control software, and the following professional test functions can be completed by the automatic operation of the microcomputer in the whole process.

-Utilizing the powerful transient capturing function of the instrument, it can accurately test the sudden addition and removal process of the load box.



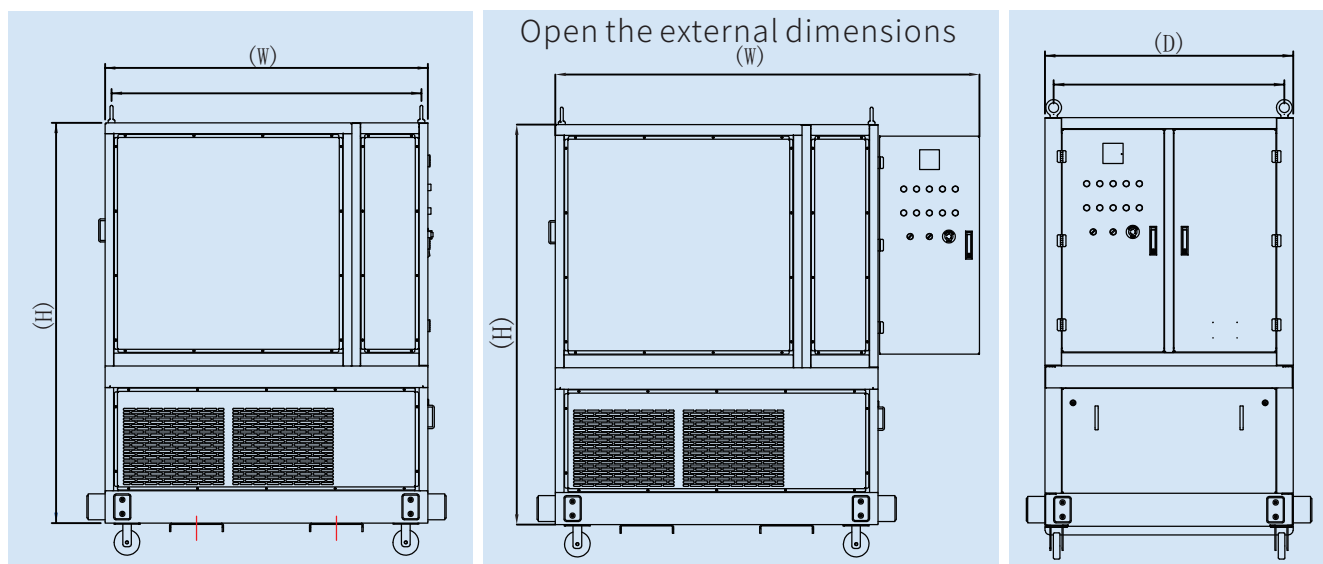
Component Configuration

No.	Name	Functionality	unit	Quantity
1	tester	data acquisition	taiwan	1
2	cable	electric energy transmission	set	1
3	electric heating tube	power load	taiwan	1
4	contactors	split control	set	1
5	thermal relay	overload protections	set	1
6	relay	signal relay	set	1
7	miniature Circuit Breaker	Line protection	set	1
8	axial flow fan	heat dissipation management	set	1
9	copper bar	transmission current	set	
10	UV Panel Printing	Panel Printing	set	1

Size of S type load cabinet

Rated power (kw)	Overall dimension /mm (W*D*H)	Open dimension /mm (W*D*H)	Package size /mm (W*D*H)	weight (kg)
100	1500*800*1600	1500*1600*1600	1580*880*1680	450
200	1500*1130*2100	1500*1971*2100	1580*1210*2180	550
300	1500*1130*2100	1500*1971*2100	1580*1210*2180	575
400	1680*1130*2100	1680*1971*2100	1760*1210*2180	700
500	1680*1130*2100	1680*1971*2100	1760*1210*2180	750
600	1890*1300*2100	1890*2010*2100	1970*1380*2180	850
700	2300*1500*2100	2300*2010*2100	2380*1580*2180	950
800	2300*1500*2100	2300*2010*2100	2380*1580*2180	1000
900	3000*1500*2100	3000*2010*2100	3080*1580*2180	1050
1000	3000*1500*2100	3000*2010*2100	3080*1580*2180	1100

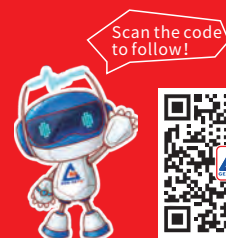
S-type load bank external dimensions



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