GEF Series 1000-3000kw

GEF Series Load Cabinet Type J

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

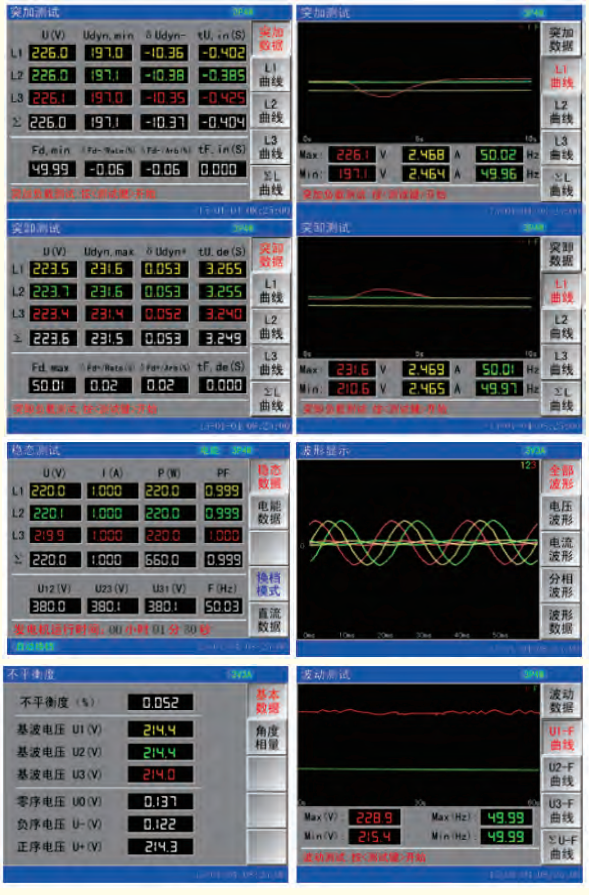
Specificities

» 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, two modes can be selected for testing 1：0%-25%-50%-75%-100%-110% or 2：0%-25%-50%-75%-100%-110%-100%-75%-50%-25%-0%Automatic input of segmented loads，Automatic input of segmented loads;

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.
- External inductor can adjust the power factor (0.8-1).
- The system is equipped with a phase sequence protector, which automatically switches the fan forward and reverse according to the wiring phase sequence to ensure reliable heat dissipation.
-Automatically shut down the cooling fan when the temperature is lower than 50°C (adjustable).
-Real-time alarms and historical alarm records are available.

-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.

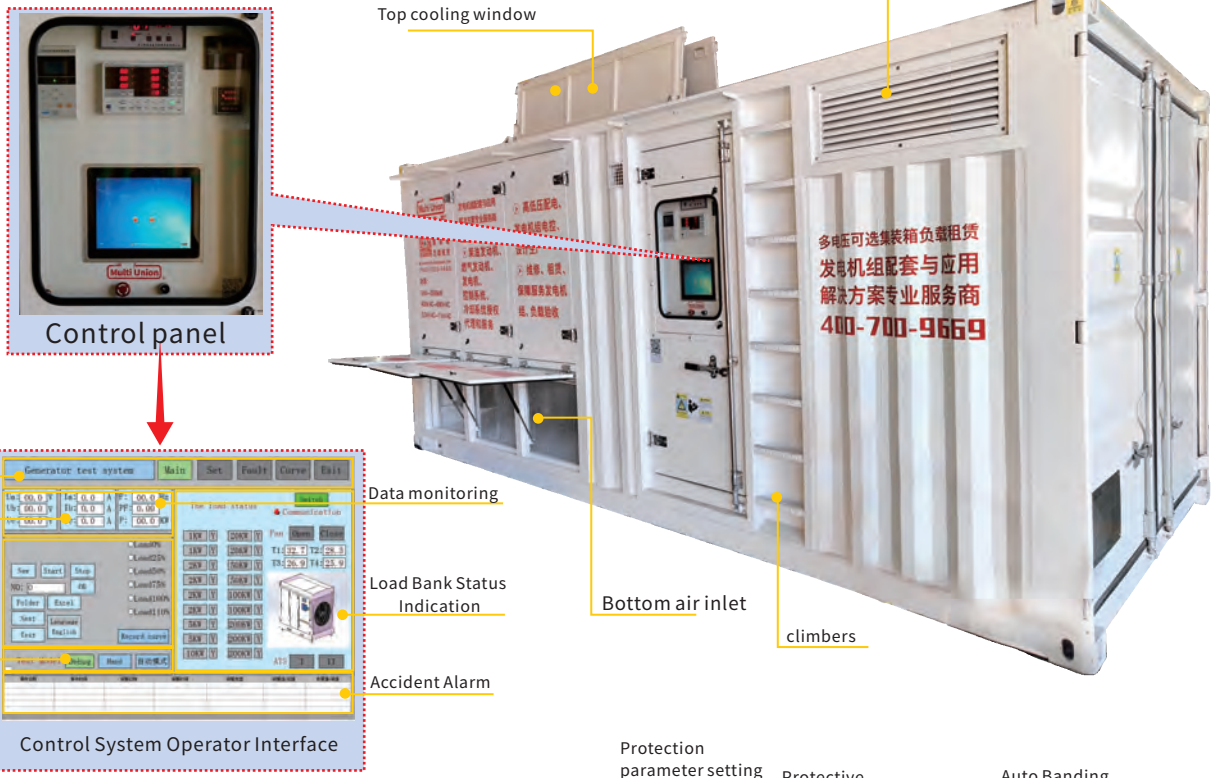


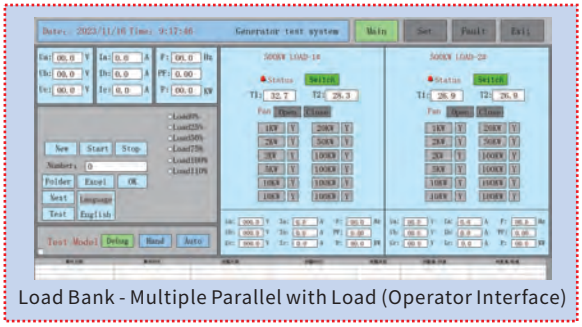
Performances

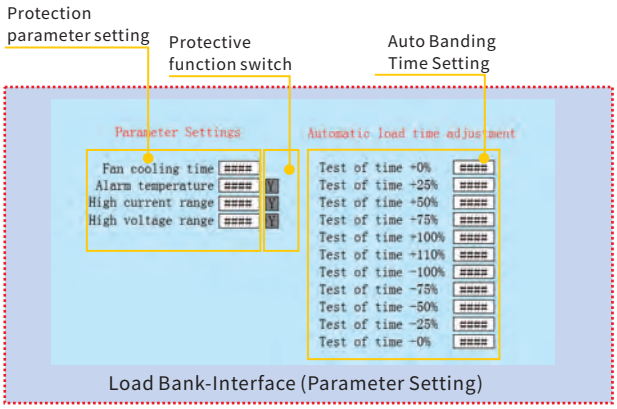
Operating Environment

»
- Ambient temperature: -20°C-50°C
- Ambient humidity: <95% (non-condensing)
- Altitude: <2000m- Power factor: 0.8-1.0
- Test voltage: AC 400/230V 50Hz
- Error rate: ⩽± 3%
- Working mode: continuous work
- Load Characteristics: Pure resistive load (inductive option)
- Control power supply: AC 220V
- Fan power supply: AC 400V, three-phase
- Cooling mode: forced air cooling
- Monitoring mode: upper computer software monitoring

Product Showcase




Load Bank - Multiple Parallel with Load (Operator Interface)



Load Bank-Interface (Parameter Setting)

Component Configuration

No.	Name	Functionality	unit	Quantity
1	tester	data acquisition	set	1
2	PLC module (optional)	system control	set	1
3	touchscreen computer	system operation	set	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	ATS	Star-Delta Toggle	set	1
9	UV Panel Printing	Panel Printing	set	1

Load Bank Selection

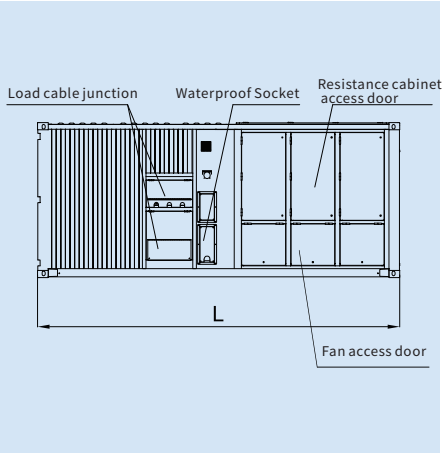
Remark:	Model suffix: S1=Power factor 1.0,S2=Power factor 0.8;S=Manual loading,Z=Automatic loading;PLC brand:S=Schneider,X=Siemens;0=No other configurations,C=With test bench;
Load Composition Composition:	Load Bank(Cabinet+Transformer Copper Row+Contactors+Resistors+Axial Fans+Auxiliaries)+Tester Set(2 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 △ 380-415V / three-phase four-wire Y 600-690V rated △ 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;

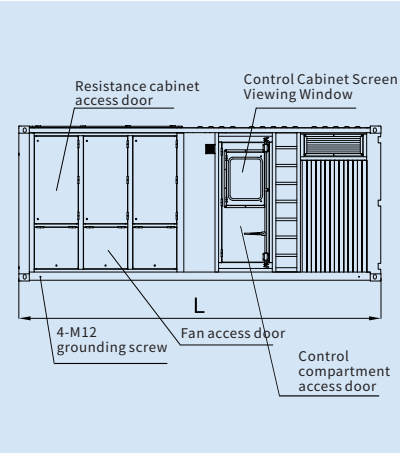
Size of J type load cabinet
(All power supports customization)

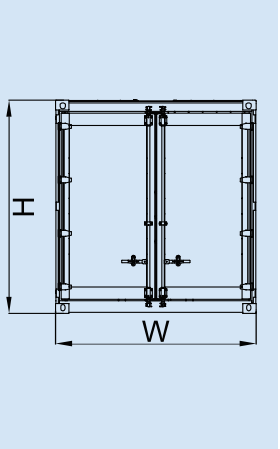
Rated power (KW)	Overall dimension /mm (L*W*H)	Open dimension /mm (E*F*G)	Package shipping size /mm(L*W*H)	Mounting dimension /mm (A*B)	weight (kg)
1000	4000*2438*2591	5798*3840*3460	4000*2438*2591	3797*2260	6500
1500	6058*2438*2591	7856*3840*3460	6058*2438*2591	5855*2260	10000
2000	6058*2438*2591	7856*3840*3460	6058*2438*2591	5855*2260	11000
3000	6058*2438*2896	7856*3840*3765	6058*2438*2896	5855*2260	13000

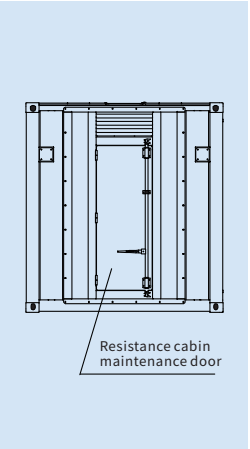
J-type load cabinet dimensions

Outline dimension

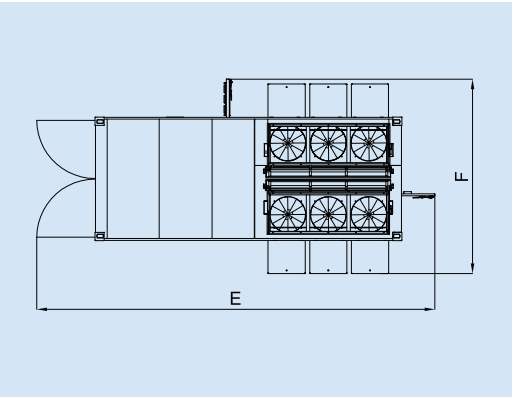


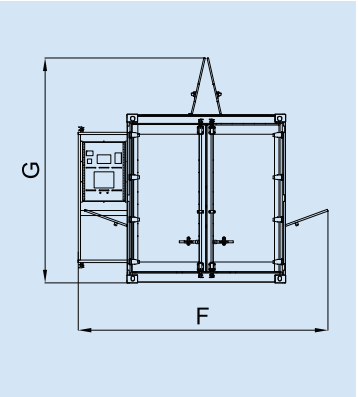




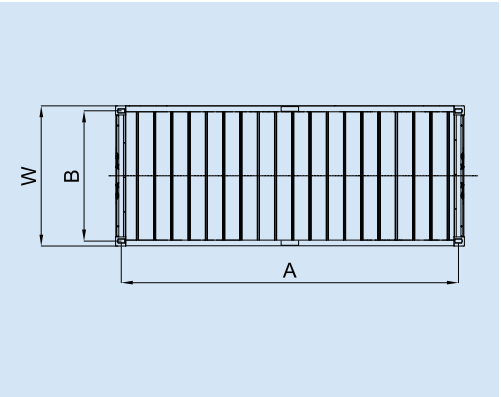


Open the external dimension diagram





Installation dimension diagram (bottom view of base)



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Floor 12, Buliding D， Unis Sci-Tech Park,Fuzhou,Fujian, China

Building13， The Songshan Area of Fuzhou Taiwanese Investment Zone， Songshan Town, Luoyuan County,Fuzhou,Fujian

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