

GEF Series 1670kvar



DM capacitive load cabinet1670kvar

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

DM capacitive load cabinet

Specificities

- » Industrial-grade powerful axial flow fan, with low noise and low temperature rise.
- » The upper computer is used to control the system and monitor the electrical parameters in real time.
- » The power consumption components are made of special alloy resistance materials and produced through strict processes, featuring excellent heat dissipation performance and high stability.
- » The design of different protection levels is suitable for different application environments.
- » The friendly human-machine interface is matched according to the actual application.
- » Flexible design and customized production meet customers' non-standard requirements.
- » The materials of the load cabinet body and the coating process.
- » Cold-rolled steel plate, industrial-grade standard spraying, with extremely strong moisture-proof, heat-resistant and anti-corrosion properties.
- » 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;

Performances

Operating Environment

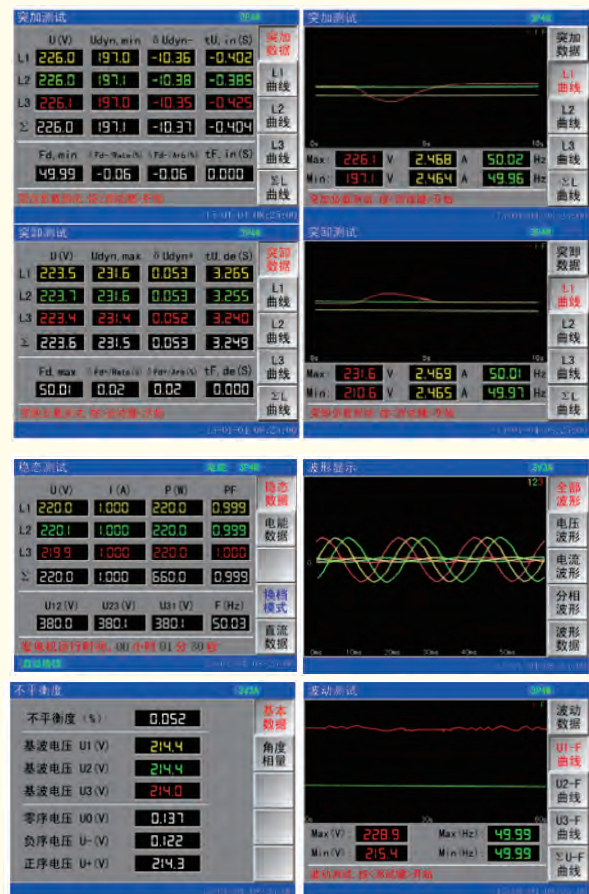
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- Ambient temperature: -20-50°C
- Ambient humidity: <95% (non-condensing)
- Altitude: <2000m
- Power factor: 0.8-1.0
- Test voltage: AC 400/230V 50Hz
- Error rate: $\leq \pm 3\%$
- Working mode: continuous work
- Load Characteristics: Pure capacitive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

Product Description

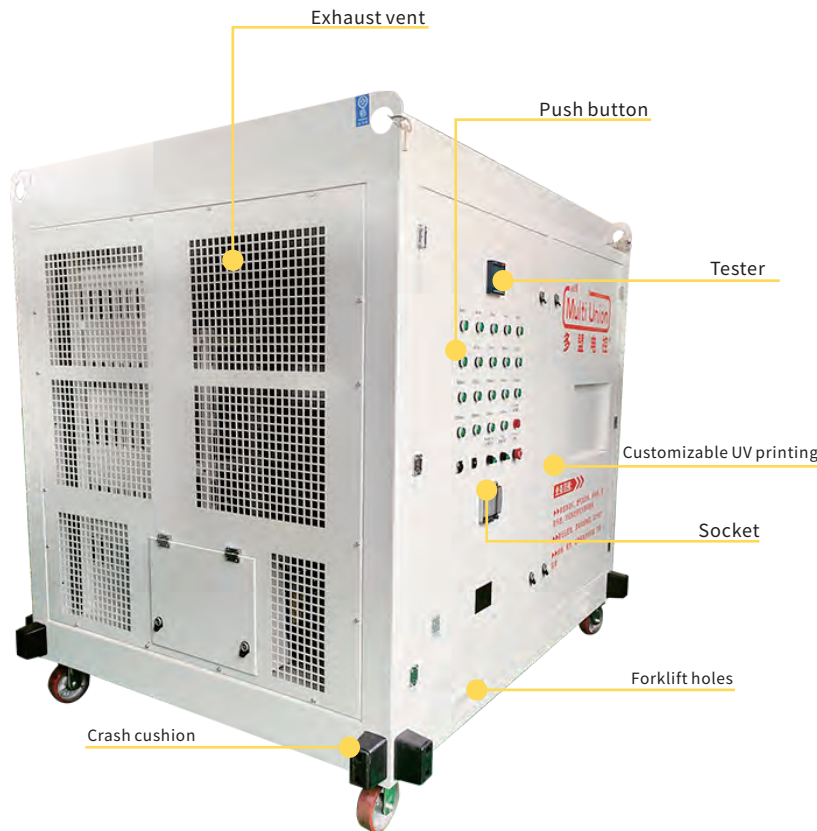
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- The corresponding load indicator on the display lights up when loaded, real-time monitoring of loaded data.
- Each output is controlled by contactor, thermal relay or circuit breaker, and provides perfect protection functions of over-current, over-voltage, over-load and over-heat.
- 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.



Product Showcase



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(Optional)+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(Optional), 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;

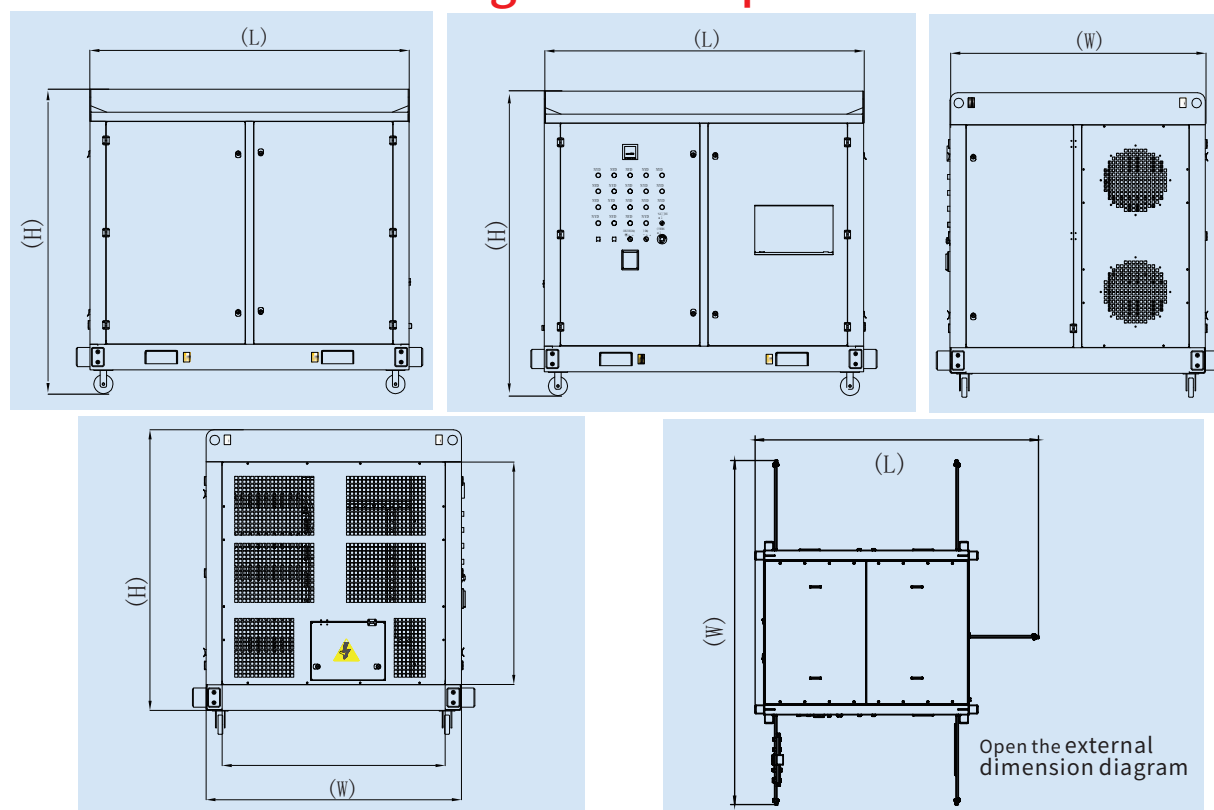
Component configuration of capacitive load cabinet

No.	Name	Functionality	unit	Quantity
1	tester	data acquisition	set	1
2	contactors	Split control	set	1
3	thermal relay	Overload protections	set	1
4	relay	signal relay	set	1
5	Miniature Circuit Breaker	Line protection	set	1
6	UV Panel Printing	Panel Printing	set	1

Dimensions of capacitive load cabinet

Rated power (kvar)	Overall dimension /mm (L*W*H)	Open dimension /mm (L*W*H)	Package shipping size /mm (L*W*H)	weight (kg)
1670	2000*1600*2000	2677*3354*2000	2170*1770*2000	1250

Outline dimension diagram of capacitive load cabinet



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