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SIKES CATALOGUE

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西凯士·负载产品选型手册
Load bank Selection Brochure

Load bank
负载

CE FC

Filter
滤波器

Transformer
变压器

Regenerative
drive
回馈装置

Choke
电抗器

RESISTOR
电阻

Dynamic
Braking Unit
制动单元

SIKES ELECTRIC (HK) CO., LTD.
西凯士电气(香港)有限公司

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中压负载箱

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西凱士電氣(香港)有限公司

SHENZHEN SIKES ELECTRIC CO., LTD.

深圳市西凱士电气有限公司

Add.:Bldg. B,Huayuan industrial park,Phoenix,
Fuyong ST 518103, Baoan district, Shenzhen, Guangdong, China
地址 :中国·广东深圳市宝安区福永街道凤凰华源工业区B栋

Tel: 0086-755-33859592/33859590

Fax: 0086-755-33859590-810

Email: sikes@sikes-elec.com

www.sikes-elec.com www.sikes-elec.cn

E-commerce Platform: <http://sikes.en.alibaba.com>

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Load Bank 负载箱

■ What is load bank? 什么是负载箱？

Load bank can verify and test for all kinds of power supply, such as diesel generator set, gas generator set, wind turbine, solar photovoltaic power station, UPS, storage battery, inverter power supply.

Load bank can simulate the actual load of generator set environment, through the load test, can test the performance of the power equipment, such as static characteristic and dynamic performance of a sudden and dump load.

Can improve the reliability of the diesel generating set, eliminate the problem caused by less than 50% under the condition of load or no-load due to inadequate fuel combustion to carbon deposition, low efficiency.

Can also provide daily inspection in the financial, data, communications, petroleum, chemical industry, national defense industry, improve the reliability of power supply equipment operation, which is important component of power supply equipment.

负载箱可为各类电源、如柴油发电机组、燃气发电机组、风力发电机组、太阳能光伏电站、UPS、蓄电池、变频电源等提供标准的出厂检测、现场调试与校验用途。

负载箱可真实模拟发电机组的实际带载环境，通过负载试验、可以检验电源设备的性能，如静态特性和对突加突卸负载的动态性能。

可改善柴油发电机组的可靠性，消除柴油发电机组在低于50%负载或空载的情况下因燃油不充分燃烧出现积碳、整机效率低等故障。

还可以对金融、数据、通信、石油、化工、国防等行业后备电源提供日常的检测，提高电源设备运行的可靠性，是电源设备日常维护检测中重要的组成部分。

■ Application

- Testing for shipping , landing and oceaneering power station
- Power unit default testing
- Financial , data centre reserve power unit inspection
- UPS detection and daily maintenance
- Wind generating set inspection
- Solar photovoltaic power station inspection
- Transformer inspection
- Battery discharging inspection

应用领域

- 船用、陆用、海洋工程电站检测
- 发电机组出厂检测，交验
- 金融、数据中心后备发电机组检测
- UPS电源检测及日常维护
- 风力发电机组检测
- 太阳能光伏电站检测
- 变压器带载检测
- 蓄电池放电检测

■ Load bank testing power & voltage range

- Power range:10KW-500MVA
- Voltage range:AC 220V/380V/400V/440/480V/
690V/3.3KV/6.6KV/10.5KV
- Power factor:0.8-1.0
- Frequency:50Hz-60Hz

负载测试功率及电压范围

- 功率范围：10KW-500MVA
- 电压范围：AC 220V/380V/400V/440/480V/
690V/3.3KV/6.6KV/10.5KV
- 功率因数：0.8-1.0
- 频 率：50Hz-60Hz

Load Bank 负载箱

TO DELIVER WORLD-CLASS HIGH-QUALITY LOAD BANK YOUR TRUSTED PARTNER

向全球提供世界级高品质的负 箱 您值得信赖的伙伴

Sikes can provide a load test, the solution of our service is started from the test site survey, the writing of the test report, all the way to the departure of the equipment.

1. Test on site survey and site situation report
2. Load test methods and steps of design, writing;
3. Load equipment and the configuration scheme of the cable;
4. Test report of offer and the writing;
5. The length of the equipment transportation plan;
6. Arrived at the scene of the equipment installation, cable and put the plan;
7. The equipment arrived at the scene of loading and unloading plan;
8. Solution for equipment arrived and leave the factory.

西凯士电气可提供负载测试整体解决方案，我们的服务从测试现场的勘察开始，测试报告的编写，一直到设备的离场...

1. 测试现场的勘察及现场情况的报告；
2. 负载测试方案及步骤的设计、编写；
3. 负载设备及电缆的配置方案；
4. 测试报告的提供该和编写；
5. 设备的长短的运输方案；
6. 设备到达现场的安装，电缆的敷设及收放方案；
7. 设备到达现场的装卸方案；
8. 设备到达现场的进场、出厂的方案。

■ Our advantages 我们的优势

- More than ten years rich experience load testing services
 - Can provide customers the whole solution for load testing
 - Available to provide all kinds of resistor/inductor load box, transformers, high and low voltage cable, generating set according to customer requirements
 - Provide 24-hour continuous operation equipment
 - Load can be set in a minimum 1 kw / 1 kva load load, load size, intelligent control, real-time display, analysis, data acquisition, offers a variety of data chart and inspection report
 - Free to adjust the power factor, between 0.6 and 1.0
 - Our company has a good reputation and high level of service and excellent equipment, can provide highly flexible solutions, more than 10 years of service experience, can load from 50 kw to 50 mva services to every corner of the world
-
- 拥有十几年丰富负载测试服务经验
 - 可为客户提供负载测试整体解决方案
 - 可根据客户需求提供各种规格的电阻/电感负载箱、变压器、高低压电缆、发电机组
 - 提供设备为全天候连续运行设备
 - 负载可最小1KW/1KVA负载加载设定，智能控制负载大小，实时数据显示、分析采集、提供多种数据图表及检验报告
 - 可自由调节功率因数，介于0.6至1.0之间
 - 我公司有良好的声誉和高水准的服务及优良的设备，可提供高度灵活的解决方案，超过10年的服务经验，负载可从50KW到50MVA服务世界每个角落

AC Medium Voltage Load banks 中高压干式负载箱

Product Profile 产品简述

With the further development of information technology, Internet and data centers to combine gradually into our life and production, data center is a personal information and business information and data resources for centralized, integration and sharing, the analysis of the site, the organic combination of tools, processes, etc. Language and data fusion is more important to make the reliability of the equipment, in order to guarantee the stability and safety of the electricity network and data, financial settlement center, data center and disaster preparedness center and important system scheduling key departments such as equipment with load box is used for back-up power daily load testing equipment, is the financial, data center system of diesel generator set, ac regulated power supply, inverter and high-power UPS on load capacity and daily maintenance of equipment required.

According to the different occasions, the equipment has indoor and outdoor, low pressure and high pressure, remote, manual and local control.

随着信息化的深入发展，互联网和数据中心地结合逐渐融入到我们的生产和生活中，数据中心是个人信息和企业信息与数据资源进行集中、集成、共享、分析的场地、工具、流程等的有机组合。语言和数据的融合使设备的可靠性变为更为重要，为保障网络和数据用电的稳定性和安全性，金融结算中心、数据中心、灾备中心及重要系统调度中心等关键部门的设备用负载箱是用于后备电源日常带载检测的设备，是对金融、数据中心系统的柴油发电机组、交流稳压电源、逆变器及大功率UPS的带载能力和日常保养维护必备的设备。根据客户使用场合不同，设备有室内型和户外型，低压和中高压负载，控制方式有远程手动控制、远程触摸屏控制和就地控制三种方式。



Specification

- Power range:100KW-6MVA
- Voltage range:AC1000V/3.3KV/6.6KV/10.5KV/13KV/20KV/35KV
- Power factor:0.8-1.0
- Frequency:50Hz-60Hz
- IP class:IP55
- Load characteristic: resistive load,inductive load and resistive-inductive load.

产品规格

- 功率范围 : 100KW-6MVA
- 电压范围 : AC1000V/3.3KV/6.6KV/10.5KV/13KV/20KV/35KV
- 功率因数 : 0.8-1.0
- 频率 : 50Hz-60Hz
- 防护等级 : IP55
- 负载特性 : 阻性负载、感性负载、阻感一体负载

AC Medium Voltage Load banks 中高压干式负载箱

■ Performance Feature 性能特点

High security: Each high pressure load configuration in vacuum circuit breaker, integrated the bartender, make equipment more safer.

Reliable: Can continuous use more than 500 hours in all-weather condition and has a short circuit, low volume, high temperature multiple protection function

Multiple control mode: computer , touch screen and manual control.

卓越的安全性：每台高压负载内配置有真空断路器，综合继保，让设备使用更安全；

可靠的稳定性：负载可**500**小时以上全天候连续使用，并有短路、低风量、高温多重保护功能；

灵活的控制方式：负载具有电脑、触摸屏、手动控制方式可选。

■ Main Technical Parameter 主要技术参数

Product Name 产品名称	AC Medium Voltage Load banks 中高压干式负载箱				
Model 型号	SKS-MV1000KW	SKS-MV1760KW	SKS-MV2000KW	SKS-MV2500KW	SKS-MV3000KW
Load Power 负载功率(KW)	1000KW	1760KW	2000KW	2500KW	3000KW
Test Voltage Range 测试电压范围 (V)	AC400V/6.6KV/10.5KV/20KV/35KV				
Frequency 频率 (HZ)	50Hz-60Hz				
Load Control 负载控制	Remote Manual Operation Or Remote Computer Operation 远程手动面板控制或远程计算机自动控制				
Load Control Capability 调节能力	Power segment load as a percentage of or Power required for load 功率段百分比加载或按照所需功率加载				
Operation Method 工作方式	Continuous Operation 连续工作				
Power Supply 工作电源	AC380V/50Hz/three phase four wire system AC380V/50Hz/AC380V/三相四线制				
Altitude 使用海拔高度 (m)	≥3000M				
Ambient Temp 温度环境	-10°C ~ +55°C				
Cooling 冷却方式	Air forced 强制风冷				
Instrument Display 仪表显示	3 Phase Voltage, Current, Frequency, Power etc. 三相电流、三相电压、频率、功率				
Load Protection 负载保护	Short-circuit, Overvoltage, Overcurrent, High temperature lowest air flow 短路、过压、过流、高温、风量保护				
Test Protection 系统标准	Meets the requirements of national, marine military, and telecommunication test(optional) 满足国际、船标、军标、通信标准的测试				
Application 适用范围	Suitable for both marine and terrestrial diesel generator set 适用于船用柴油发电机组、陆用柴油发电机组、燃气发电机组				
Resistive load bank size 外形尺寸	3000×2438×2591 (L×W×H) mm 10英尺标准集装箱	4000×2438×2591 (L×W×H) mm	6058×2438×2591 (L×W×H) mm 20英尺标准集装箱	6058×2438×2591 (L×W×H) mm 20英尺标准集装箱	6058×2438×2591 (L×W×H) mm 20英尺标准集装箱
Weight 重量	4500KG	5000KG	6500KG	7500KG	8500KG

Oceaneering Power Station Testing Load Bank

船舶海洋工程电站测试负载箱

Product Profile 产品简述

Oceaneering power station testing load bank is used for Marine generator unit and gas load test, can accurately test of generator output power and load capacity, mainly for all electric generating set parameters include dynamic parameters testing, control mode has a remote laptop control (the main control mode), local manual control (standby mode) control, adopt computer control mode, can be done automatically for all electric generating set parameters of each test, real-time display the test data, and generating charts, curves and testing report, test project, all the data content rich for high-power generating set equipment provides scientific testing means. Ships and ocean engineering plant test load box, power range from - 6000 kva, 500 kva load box USES the ISO standard container body structure design, high protection grade, hoisting mobile and convenient, safe and reliable use, can be used more than one parallel.



船舶海洋工程电站测试负载箱是用于船用发电机组和燃气机组负载测试，可以精确测试各类发电机组的输出功率与带载能力，主要对发电机组所有电参数包括动态参数进行测试，控制方式有远程笔记本电脑控制（主控制方式），就地手动控制（备用控制方式），采用计算机控制方式，可自动完成对发电机组所有电参数的各项测试，实时显示测试数据，同时生成图表、曲线及检测报告，测试项目全，数据内容丰富为大功率发电机组设备提供了科学的检测手段。
船舶、海洋工程电站测试负载箱，功率范围由500KVA-6000KVA，负载箱体采用ISO标准集装箱体结构设计，防护等级高，吊装移动方便，使用安全可靠，可多台并联使用。

Specification 规格

- Power range:500KVA-6000KVA
- Voltage range:AC400V/440V/480V/AC690V
AC3.3KV/6.6KV/10.5KV/13KV
- Power factor:0.8-1.0
- Frequency:50Hz-60Hz
- Load characteristic: resistive load,inductive load and resistive-inductive load

产品规格

- 功率范围：500KVA-6000KVA
- 电压范围：AC400V/440V/480V/690V
AC3.3KV/6.6KV/10.5KV/13KV
- 功率因数：0.8-1.0
- 频率：50Hz-60Hz
- 负载特性：阻性负载、感性负载、阻感一体负载

Performance Feature 性能特点

High-efficiency controllability : Computer automatic control One-touch operation.

High security : Self-protection for Short circuit, low volume and high temperature.

Reliable : Continuous use in all day.

Multiple control mode : computer, touch screen and manual control.

高效的操控性：电脑自动控制一键操作；

卓越的安全性：短路、低风量、高温多重保护功能；

可靠的稳定性：可全天候连续使用；

多种控制方式：电脑自动控制、触摸屏远程控制、手动控制可选。

Oceaneering Power Station Testing Load Bank

船舶海洋工程电站测试负载箱

Main Technical Parameter 主要技术参数

Product Name 产品名称	Oceaneering power station testing load bank 船舶海洋工程电站测试负载箱				
Model 型号	SKS-RL1500KVA	SKS-RL2500KVA	SKS-RL3500KVA	SKS-RL4500KVA	SKS-RL6000KVA
Load power 负载功率 (KW)	1200kw/900kvar	2000kw/1500kvar	2800kw/2100kvar	3600kw/2700kvar	4500kw/3375kvar
Test Voltage Range 测试电压范围 (V)	AC400/440V/480V/690V				
Frequency 频率 (Hz)	50Hz-60Hz				
Load Control 负载控制	Remote Manual Operation Or Remote Computer Operation 远程手动面板控制或远程计算机自动控制				
Load Control Capability 调节能力	Power segment load as a percentage of or Power required for load 功率段百分比加载或按照所需功率加载				
Operation Method 工作方式	Continuous Operation 连续工作				
Power Supply 工作电源	AC380V/50Hz/three phase four wire system AC380V/50Hz/三相四线制				
Altitude 使用海拔高度 (m)	≥3000M				
Ambient Temp 温度环境	(-10°C ~ +55°C)				
Cooling 冷却方法	Air forced 强制风冷				
Instrument Display 仪表显示	3 Phase Voltage, Current, Frequency, Power etc. 三相电流、三相电压、频率、功率				
Load Protection 负载保护	Short-circuit, Overvoltage, Overcurrent, High temperature, lowest air flow 短路、过压、过流、高温、风量保护				
Test Standards 系统标准	Meets the requirements of national, marine, military, and telecommunication test (optional) 满足国标、船舶、军标、通信标准的测试				
Resistive load bank size 外形尺寸	3000*2483*2591 (L*W*H)mm 10英尺标准集装箱	6058*2438*2591 (L*W*H)mm 20英尺标准集装箱	6058*2438*2896 (L*W*H)mm 20英尺标准集装箱	6058*2438*2896 (L*W*H)mm 20英尺标准集装箱	6058*2438*2896 (L*W*H)mm 20英尺标准集装箱
Weight 重量	6000KG	8000KG	15000KG	18000KG	22000KG

Testing program and function 负载测试项目及功能

Number 序号	Testing function 测试功能	Measured parameters 测量参数
1	Steady 稳态测试	Measurable generator steady-state three-phase voltage, current, active power, reactive power, apparent power, power factor, frequency, the basic function such as running time. 可测量发电机稳态三相电压，电流，有功功率，无功功率，视在功率，功率因数，频率，运行时间等基本功能
2	Wave form 波形	Full waveform and voltage waveform, current waveform, phase waveform, the waveform data; Upk, voltage peak voltage wave coefficient Ucf voltage distortion rate, the peak current Ipk Icf current crest factor 全部波形，电压波形，电流波形，分相波形，波形数据；电压峰值Upk,电压波峰系数Ucf 电压畸变率,电流峰值Ipk电流波峰系数Icf
3	Harmonic 谐波	Can have the function of harmonic analysis, and analysis of voltage, current 2~40 times harmonic content (waveform distortion rate); Power function. (power frequency voltage current 1~50 times); Telephone harmonic factor (pf) 具有谐波分析功能，能同时分析电压，电流2~40次谐波含量（波形畸变率）；电能累计功能。电压电流（工频1~50次）；电话谐波因数（工频）；
4	Unbalance 不平衡度	Voltage unbalance degree, three-phase voltage wave data 电压不平衡度，三相电压基波数据；
5	Setting test 整定测试	Rising voltage setting range, relative rising voltage setting range; Voltage setting down range, relative range of voltage setting down; 电压整定上升范围，相对的电压整定上升范围；电压整定下降范围，相对的电压整定下降范围； Relative frequency setting up scope, setting up scope; Frequency setting down range, relative frequency setting decline range; 频率整定上升范围，相对的频率整定上升范围；频率整定下降范围，相对的频率整定下降范围；
6	Fluctuation test 波动测试	Maximum voltage fluctuations, the minimum value, the steady state voltage deviation; Fluctuation frequency maximum, minimum, steady frequency difference 波动电压最大值，最小值，稳态电压偏差；波动频率最大值，最小值，稳态频率差
7	Transient add test 突加测试（加载）	When loading the minimum instantaneous voltage drop, transient voltage deviation, load increases the voltage recovery time after; Loaded down minimum instantaneous frequency, transient frequency deviation, load increase the frequency of the recovery time; 加载时下降的最低瞬时电压，瞬态电压偏差，负载增加后的电压恢复时间；加载时下降的最低瞬时频率，瞬态频率偏差，负载增加后的频率恢复时间；
8	Transient reduce test 突卸测试（减载）	Uninstall rising highest instantaneous voltage, transient voltage deviation, load to reduce the voltage recovery time after; Load up the highest instantaneous frequency, transient frequency deviation, the frequency of the load decreases recovery time; 卸载时上升的最高瞬时电压，瞬态电压偏差，负载减少后的电压恢复时间；加载时上升的最高瞬时频率，瞬态频率偏差，负载减少后的频率恢复时间；
9	Routing inspection 巡检测试	Continuous working test, record time can be set ,record the continuous working condition of three-phase voltage, three-phase current, power, power factor, frequency electric parameters, such as data; 机组连续工况试验测试，记录时间可设定，记录下该时段连续工况三相电压，三相电流，功率，功率因数，频率等电参数数据；
10	Wave record 录波	Three phase voltage waveform; Four kinds of wave record mode; Umod peak (256) 2000 damage per second, 4000 damage per second, Har (harmonic mode, 128 points/frequency) power frequency, intermediate frequency 64 points/frequency; 三相电压波形；四种录波模式；Umod(峰值256点) 2000点/秒,4000点/秒, Har(谐波模式，工频128点/周波），中频64点/周波）；
11	Summons to measure curve 召测曲线	Can test sudden add, reduce, voltage, current, frequency curve and the voltage, current harmonic curves and the harmonic content; 能召测突加，突卸，电压，电流，频率曲线及电压，电流谐波曲线及谐波含量；
12	Load bank control 负载控制	During three-phase load test ,only need to input the power unit's rating power or total power of input load and the load time, the system will automatically complete the test from 0%, 25%, 50%, 75%, 100%, 110%, 75%, 50%, 25%, 0% , and the generating set V, I, KW, Hz in load change, recovery time and the curve stored and displayed in the form of tables and graphics. Manual control panel or by load load; Optimize the segmented into easy setting, automatic loading one-click operation; Minimum adjusted before 1 kw - maximum power; 三相负载测试时只需在电脑上输入被测发电机组的额定功率加载或者输入负载总功率和加载时间，系统将自动完成从0%，25%，50%，75%，100%，110%，75%，50%，25%，0%的加载测试，并把发电机组的V,I,KW,Hz在加载中出现的变化，恢复时间和曲线以表格及图形的方式储存和显示；或者由负载手动面板控制加载；优化分段投入方式，设置方便，自动加载一键式操作；最小可在1KW-最大功率之前任意调节；

Generator Set Intelligent Testing System

发电机组智能测试系统

Product Profile 产品简述

Generator set intelligent testing system is used for diesel oil, natural gas generator set in the production of type testing and factory inspection of special equipment, can be done automatically by the software control number of power generating sets all test project, with static, dynamic, plus a generator, dump, 110% overload, such as testing, data acquisition, real-time display, analysis, and can automatically generate all kinds of chart, curve and the function of the test reports, system meet the national standard, standard, the standard of ship, communication and other test standard of the industry. Load cases of high degree of protection, insulation performance is good, high compression performance, the transportation is convenient, widely used in various fields. According to customer requirements can be configured manually type load case, intelligent test system (matching computer test bed).



发电机组智能测试系统是用于柴油、天燃气发电机组生产中的型式试验及出厂检测的专用设备，可以通过软件控制自动完成发电机组所有的电能数项目测试，具有发电机组静态、动态、突加，突卸、110%超载等测试，数据实时采集、显示、分析并能够自动生成各种图表、曲线和检测报告的功能，系统满足国标、船标、军标、通信等行业测试标准。负载箱防护等级高，绝缘性能好，耐压性能高，

Specification

- Power range:10KW-6MVA
- Voltage range:AC220V/AC400V/440V/AC600V/AC690V/AC3.3KV/AC6.6KV/AC10.5KV
- Power factor:0.8-1.0
- Frequency:50Hz-60Hz
- Load characteristic: resistive load inductive load and resistive-inductive load

产品规格

- 功率范围 : 10KW-6MVA
- 电压范围 : AC220V/AC400V/440V/AC600V/AC690V/AC3.3KV/AC6.6KV/AC10.5KV
- 功率因数 : 0.8-1.0
- 频率 : 50Hz-60Hz
- 负载特性 : 阻性负载、感性负载、阻感一体负载

Performance Feature 性能特点

High-efficiency controllability : Computer automatic control One-touch operation
High security : Self-protection for Short circuit, low volume and high temperature.
Reliable : Continuous use in all day.
Multiple control mode : computer, touch screen and manual control.

高效的操控性：电脑自动控制一键操作；
卓越的安全性：短路、低风量、高温多重保护功能；
可靠的稳定性：可全天候连续使用；

Generator Set Intelligent Testing System

发电机组智能测试系统

Main Technical Parameter 主要技术参数

Product Name 产品名称	Generator set intelligent testing system 发电机组智能测试系统				
Model 型号	SKS-L200KW	SKS-L500KW	SKS-L1000KW	SKS-L2000KW	SKS-L3000KW
Load Power 负载功率 (KW)	200KW	500KW	1000KW	2000KW	3000KW
Test Voltage Range 测试电压范围 (V)	AC220V/AC400V/440V/AC600V/AC690V/AC3.3KV/AC6.6KV/AC10.5KV				
Frequency 频率 (Hz)	50Hz-60Hz				
Load Control 负载控制	Manual Operation Or Remote Computer Operation 手动面板控制或远程电脑自动控制				
Load control Capability 调节能力	Power segment load as percentage of or Power required for load 功率段百分比加载或按照所需功率加载				
Operation Method 工作方式	Continuous Operation 连续工作				
Power Supply 工作电源	AC380V/50Hz/ three phase four wire system AC380V/50Hz/三相四线				
Altitude 使用海拔高度 (m)	$\geq 3000\text{M}$				
Ambient Temp 温度环境	$-10^{\circ}\text{C} \sim +55^{\circ}\text{C}$				
Cooling 冷却方式	Air forced 强制风冷				
Instrument Display 仪表显示	3 Phase Voltage, Current, Frequency, Power etc 三相电流、三相电压、频率、功率				
Load Protection 负载保护	Short-circuit, Overvoltage, Overcurrent, High temperature ,lowest air flow 短路、过压、过流、高温、风量保护				
Test Standards 系统标准	Meets the requirements of national,marine,military, and telecommunication test (optional) 满足国标、船标、军标、通信标准的测试				
Resistive load bank size 外型尺寸	1100×800×1400 (L×W×H)mm	1700×1500×1600 (L×W×H)mm	1800×1600×2200 (L×W×H)mm	4000×2438×2591 (L×W×H)mm	6058×2438×2591 (L×W×H)mm Outdoor户外型集装箱
Weight 重量	400KG	1200KG	2500KG	4000KG	6500KG

Intelligent Test System--can test and display, print the following items:

智能型测试系统-可测试及显示、打印以下项目：

Number 序号	Testing function 测试功能	Measured parameters 测量参数
1	Steady 稳压测试	电压 voltage (U:V) 电流 current (I:A) 有功功率 active power (P:W) , 功率因数 power factor (PF), 视在功率 apparent power (S:VA), 无功功率 wattless power (Q:Var), 有功电能 active energy (Ep:W.h), 无功电能 wattless energy (Eq:Var.h)
2	Waveform test 波形率测试	Full waveform and voltage waveform, current waveform, phase waveform, the waveform data: voltage modulation rate, peak voltage Upk, voltage wave coefficient Ucf, voltage waveform distortion rate, peak current LPk, current crest factor LCF test; 全部波形,电压波形,电流波形,分相波形,波形数据 : 电压调制率, 电压峰值Upk, 电压波峰系数Ucf, 电压波形畸变率, 电流峰值lpk, 电流波峰系数cf等试验 ;
3	Harmonic coefficient 谐波系数试验	With functions of harmonic analysis, analysis of voltage and current at the same time of 2 ~ 40 times harmonic content and the total harmonic content (waveform distortion rate); Power function. Voltage and current harmonics (1-50 times) power frequency; Telephone harmonic factor (pf) 具有谐波分析功能, 能同时分析电压、电流2~40次谐波含量及总谐波含量 (波形畸变率) ; 电能累计功能。电压电流分次谐波 (工频1-50次) ; 电话谐波因数 (工频)
4	Three phase dissymmetry load bank test 三相不对称负载试验	Unbalanced three-phase voltage test of the deviation 三相电压不平衡度偏差试验
5	Setting test 整定测试	Rising voltage setting range, relative rising voltage setting range; Voltage setting down range, relative range of voltage setting down; 电压整定上升范围, 相对的电压整定上升范围 ; 电压整定下降范围, 相对的电压整定下降范围 ; Frequency setting of scope, the relative range of frequency setting up; Frequency setting down range, relative frequency range; 频率整定上升范围, 相对的频率整定上升范围 ; 频率整定下降范围, 相对的频率下降范围 ;
6	Fluctuate test 波动测试	Maximum voltage fluctuations, the minimum value, the steady state voltage deviation; Fluctuation frequency maximum, minimum, steady frequency band 波动电压最大值, 最小值, 稳态电压偏差 ; 波动频率最大值, 最小值, 稳态频率带
7	Transient add test 瞬态突加测试 (加载)	When loading the minimum instantaneous voltage drop, transient voltage deviation, load increases the voltage recovery time after; Loaded down minimum instantaneous frequency, transient frequency deviation, load increase the frequency of the recovery time; 加载时下降的最低瞬时电压, 瞬态电压偏差, 负载增加后的电压恢复时间 ; 加载时下降的最低瞬时频率, 瞬态频率偏差, 负载增加后的频率恢复时间 ;
8	Transient reduce test 突卸瞬态测试 (减载)	Uninstall rising highest instantaneous voltage, transient voltage deviation, load to reduce the voltage recovery time after; Uninstall rising highest instantaneous frequency, transient frequency deviation, the frequency of the load decreases recovery time; 卸载时上升的最高瞬时电压, 瞬态电压偏差, 负载减少后的电压恢复时间 ; 卸载时上升的最高瞬时频率, 瞬态频率偏差, 负载减少后的频率恢复时间 ;
9	Reliability test for continuous work 连续工作可靠性试验	Continuous working condition test, record time can be set to record the time continuous working condition of three-phase voltage, three-phase current, power, power factor, frequency according to the electric parameters and so on; 机组连续工作工况测试, 记录时段可设定, 记录下该时段连续工况三相电压、三相电流、功率、功率因素、频率等电参数据 ;
10	Wave record 录波	Three phase voltage waveform; Four wave record mode: Umod (fengfeng value, 256), 2000 damage per second, 4000 damage per second, Har (harmonic mode, 128 points/frequency power frequency, intermediate frequency 64 points/frequency); 三相电压波形 ; 四种录波模式 : Umod(峰峰值 , 256点) , 2000点/秒 , 4000点/秒 , Har(谐波模式 , 工频128点/周波 , 中频64点/周波) ;
11	Summons to measure curve 召测曲线	Can test sudden add , reduce, voltage, current, frequency curve and the voltage, current harmonic curves and the harmonic content; 能召测突加, 突卸、电压、电流、频率曲线, 及电压、电流谐波曲线及谐波含量 ;
12	Default test 出厂验收试验	Test the default parameters 机组出厂各项验收试验

Military Industry Aerospace Load Box

军工、航空航天负载箱

Product Profile 产品简述

Military industry, aerospace load box is used in military, aviation, aerospace power detection and power products daily indispensable maintenance detection equipment, use for army group, civil airports, aircraft maintenance bases, voyage repair station, aircraft factories, aircraft research department, department of aeronautics and astronautics, ground radar station, ships, submarines and military precision instruments and scientific research institutes, can be used to combat aircraft, helicopters, transport aircraft, and small and medium-sized civil aircraft, ground power supply, ground radar station, ships, submarines and military precision instrument power detection. According to the required to provide mobile users, stationary, small module type, frame type, hanging bridge and trailer type load.

军工、航空航天负载箱是用于军工、航空、航天电源检测及电源产品的日常养维护检测的必备设备，适用于军团用、民用机场、飞机维修基地、航修站、飞机制造厂、飞机研制部门、航空航天部门、地面雷达站、舰艇、潜艇、军用精密仪器仪表及科研院所，可用于作战飞机、直升机、运输机以及中小型民航客机、地面供电电源、地面雷达站、舰艇、潜艇、军用精密仪器仪表电源的检测。可根据用户要求提供移动式、固定式、小型模块式、机架式、桥挂式和拖车式负载。



Specification

Power range:

AC 5KW-6000KVA
DC 200A×2、800A×2、1000A、2000A or other standard

Voltage range:

AC36V/110V/115V/200V/400V/440V/3000V
DC0-70V,DC28V/28.5V/57V/270V/1000V

Power factor:0.8-1.0

Frequency:50Hz-60Hz/400Hz

Load characteristic:resistive load inductive load and resistive-inductive load.

产品规格

功率范围 :

交流5KW-6000KVA
直流200A×2/800A×2/1000A/2000A或其它规格

电压范围 :

交流 AC 36V、110V、115V、200V、400V、
440V、3000V
直流 DC 0-70V、28V、28.5V、57V、270V、
1000V

功率因数 : 0.8-1.0

频率 : 50Hz-60Hz/400Hz

负载特性 : 阻性负载、感性负载、容性负载、 阻感一体负载

Performance Feature 性能特点

High-efficiency controllability : Computer automatic control One-touch operation

High security : Self-protection for Short circuit, low volume and high temperature.

Reliable : Continuous use in all day.

Multiple control mode : computer , touch screen and manual control.

高效的操控性：电脑自动控制一键操作；

卓越的安全性：短路、低风量、高温多重保护功能；

可靠的稳定性：可全天候连续使用；

Military Industry Aerospace Load Box

军工、航空航天负载箱

Main Technical Parameter 主要技术参数

Product Name 产品名称	Military industry aerospace load box 军工、航空航天负载箱						
Model 型号	SKS-L50KW	SKS-L100KW	SKS-L200KW	SKS-L500KW	SKS-L1000KW	SKS-DC/2000A	SKS-DC/0-70V
Load Power 负载功率 (kW)	50kW	100kW	200kW	500kW	1000kW	200Ax2 800Ax2	6600A
Test Voltage Range 测试电压范围 (V)	AC220V/AC400V/440V/AC600V/AC690V/AC3.3KV/AC6.6KV/AC10.5KV					DC28.5V	DC0-70V
Frequency 频率 (Hz)	400Hz						
Load Control 负载控制	Manual Operation Or Remote Computer Operation 手动面板控制或远程电脑自动控制						
Load control Capability 调节能力	Power segment load as percentage of or Power required for load 功率段百分比加载或按照所需功率加载						
Operation Method 工作方式	Continuous Operation 连续工作						
Power Supply 工作电源	AC380V/50Hz/ three phase four wire system AC380V/50Hz/三相四线						
Altitude 使用海拔高度 (m)	≥3000M						
Ambient Temp 温度环境	-10°C~ +55°C						
Cooling 冷却方式	Air forced 强制风冷						

Intelligent Test System-can test and display, print the following items:

智能型测试系统-可测试及显示、打印以下项目：

Number 序号	Test object 测试功能	Measured parameters 测量参数
1	Steady 稳压测试	Measurable generator steady-state three-phase voltage, current, active power, reactive power, apparent power, power factor, frequency, the basic function such as running time. 可测量发电机稳态三相电压、电流、有功功率、无功功率、视在功率、功率因数、频率、运行时间等基本功能。
2	Wave form 波形	Full waveform and voltage waveform, current waveform, phase waveform, the waveform data; Upk, voltage peak voltage wave coefficient Ucf voltage distortion rate, the peak current Ipk Icf current crest factor; 全部波形,电压波形,电流波形,分相波形,波形数据 : 电压调制率 , 电压峰值Upk , 电压波峰系数Ucf , 电压波形畸变率 , 电流峰值Ipk , 电流波峰系数Icf
3	Harmonic 谐波	Can have the function of harmonic analysis, and analysis of voltage, current 2~40 times harmonic content (waveform distortion rate); Power function. (power frequency voltage current 1~50 times); Telephone harmonic factor (pf); 具有谐波分析功能 , 能同时分析电压、电流2~40次谐波含量及总谐波含量 (波形畸变率) ; 电能累计功能。电压电流分次谐波 (工频1~50次) ; 电话谐波因数 (工频)
4	Unbalance 不平衡度	Voltage unbalance degree, three-phase voltage wave data; 电压不平衡度 , 三相电压基波数据
5	Setting test 整定测试	Rising voltage setting range, relative rising voltage setting range; Voltage setting down range, relative range of voltage setting down; 电压整定上升范围 , 相对的电压整定上升范围 ; 电压整定下降范围 , 相对的电压整定下降范围 ; Frequency setting of scope, the relative range of frequency setting up; Frequency setting down range, relative frequency setting down; 频率整定上升范围 , 相对的频率整定上升范围 ; 频率整定下降范围 , 相对的频率整定下降范围 ;
6	Fluctuate test 波动测试	Maximum voltage fluctuations, the minimum value, the steady state voltage deviation; Fluctuation frequency maximum, minimum, steady frequency difference 波动电压最大值 , 最小值 , 稳态电压偏差 ; 波动频率最大值 , 最小值 , 稳态频率带
7	Transient add test 突加测试 (加载)	When loading the minimum instantaneous voltage drop, transient voltage deviation, load increases the voltage recovery time after; Loaded down minimum instantaneous frequency, transient frequency deviation, load increase the frequency of the recovery time; 加载时下降的最低瞬时电压 , 瞬态电压偏差 , 负载增加后的电压恢复时间 ; 加载时下降的最低瞬时频率 , 瞬态频率偏差 , 负载增加后的频率恢复时间 ;
8	Transient reduce test 突卸测试 (减载)	When loading the minimum instantaneous voltage drop, transient voltage deviation, load increases the voltage recovery time after; Loaded down minimum instantaneous frequency, transient frequency deviation, load increase the frequency of the recovery time; 卸载时上升的最高瞬时电压 , 瞬态电压偏差 , 负载减少后的电压恢复时间 ; 卸载时上升的最高瞬时频率 , 瞬态频率偏差 , 负载减少后的频率恢复时间 ;
9	Routing inspection 巡视检测	Continuous working test, record time can be set, record the continuous working condition of three-phase voltage, three-phase current, power, power factor, frequency electric parameters, such as data; 机组连续工作工况测试 , 记录时段可设定 , 记录下该时段连续工况三相电压、三相电流、功率、功率因素、频率等电参数数据 ;
10	Wave record 录波	Three phase voltage waveform; Four wave record mode: Umod (fengfeng value, 256), 2000 damage per second, 4000 damage per second, Har (harmonic mode, 128 points/frequency power frequency, intermediate frequency 64 points/frequency); 三相电压波形 ; 四种录波模式 : Umod(峰峰值 , 256点) , 2000点/秒 , 4000点/秒 , Har(谐波模式 , 工频128点/周波 , 中频64点/周波) ;
11	Summons to measure curve 召测曲线	Can test sudden add, reduce, voltage, current, frequency curve and the voltage, current harmonic curves and the harmonic content; 能召测突加 , 突卸、电压、电流、频率曲线 , 及电压、电流谐波曲线及谐波含量 ;
12	Load Control 负载控制	During three-phase load test, only need to input the power unit's rating power or total power of input load and the load time, the system will automatically complete the test from 0%, 25%, 50%, 75%, 100%, 110%, 75%, 50%, 25%, 0%, and the generating set V, I, KW, Hz in load change, recovery time and the curve stored and displayed in the form of tables and graphics. Manual control panel or by load load; Optimize the segmented into easy setting, automatic loading one-click operation; Minimum adjusted before 1kw - maximum power; 三相负载测试时只需在电脑上输入被测发电机组的额定功率加载或者输入负载总功率和加载时间 , 系统将自动完成从 0% 、 25% 、 50% 、 75% 、 100% 、 110% 、 75% 、 50% 、 25% 、 0% 的加载测试 , 并把发电机的 V, I, KW, Hz 在加载中出现的变化、恢复时间和曲线以表格及图形的方式储存和显示 ; 或者负载手动面板控制加载 ; 优化分段式投入方式 , 设置方便 , 自动加载一键式操作 ; 最小可以 1KW~ 最大功率之间任意调节 ;

Medium Voltage Load Box 中压负载箱

Product Profile 产品简述

Along with the high voltage power transmission and distribution in the progress of the society and the high voltage generator gradually into our life and production, small loss at high voltage power transmission and distribution has long distance transmission, the use of economic, scientific power structure, distribution management and convenient advantages, such as the high voltage generator is now widely used in ship and ocean engineering, finance, electricity, communications, industrial, aerospace, oil and other fields. We developed a new high pressure load in the box, without transformer relay can be connected directly to high voltage generator and power in the load test, the load of high precision, the use of safe and reliable, and cost savings for customers, create value.



Medium voltage load box adopts remote operations, testers need not close to the medium voltage load boxes can complete all test project, continuously improved the security of the load test and the test efficiency, high pressure load can be configured in the PC software, can be real-time display test parameters, curves, the data can be stored automatically, and can be printed.

High voltage load boxes used in outdoor design standard container type, high protection grade, insulation performance is good, high compression performance, the transportation is convenient, widely used in all fields.

随着社会的进步中高压输配电和中高压发电机组逐渐的融入到我们的生产和生活中，中高压输配电有着远距离传输损耗小，使用经济，电力结构科学，分配管理方便等优势，中高压发电机组现已广泛应用于船舶、海洋工程、金融、电力、通信、工业、航天、石油等各个领域。我司研制出的新式中高压负载箱，无需变压器中转可直接连接中高压发电机组和电源进行负载测试，负载精度高，使用安全可靠、从而为客户节省成本，创造价值。

中压负载箱采用远程操作，测试人员无需靠近中压负载箱就可以完成所有测试项目，不断提高负载测试的安全性和测试效率，中高压负载可配置上位机软件，可实时显示测试参数、曲线、数据可自动储存，并可打印。

中高压负载箱采用户外标准集装箱型设计，防护等级高，绝缘性能好，耐压性能高，运输方便，广泛应用在各个领域。

Specification

- Power range:100KW-6000KW
- Voltage range:AC 1000V/3.3KV/6.6KV/10.5KV/13KV/20KV
- Power factor:0.8-1.0
- Frequency:50-60Hz
- IP class:IP55
- Load characteristic: resistive load inductive load and resistive-inductive load.

产品规格

- 功率范围：100KW-6000KW
- 电压范围：AC 1000V/3.3KV/6.6KV/10.5KV/13KV/20KV
- 功率因数：0.8-1.0
- 频率：50-60Hz
- 防护等级：IP55
- 负载特性：阻性负载、感性负载、容性负载、阻感一体负载

Medium Voltage Load Box 中压负载箱

Performance Feature 性能特点

High-efficiency controllability : Computer automatic control One-touch operation

High security : Self-protection for Short circuit, low volume and high temperature.

Reliable : Continuous use in all day.

Multiple control mode : computer, touch screen and manual control.

高效的操控性：电脑自动控制一键操作；

卓越的安全性：短路、低风量、高温多重保护功能；

可靠的稳定性：可全天候连续使用；

多种控制方式：电脑自动控制、触摸屏远程控制、手动控制可选。

Main Technical Parameter 主要技术参数

Product Name 产品名称	Medium Voltage Load Box 中压负载箱						
Model 型号	SKS-MV120KW	SKS-MV500KW	SKS-MV1000KW	SKS-MV1760KW	SKS-MV2000KW	SKS-MV2500KW	SKS-MV3000KW
Load Power 负载功率 (KW)	120KW	500KW	1000KW	1760KW	1000KW	2500KW	3000KW
Test Voltage Range 测试电压范围 (V)	AC1000V-35KV						
Frequency 频率 (Hz)	50Hz-60Hz						
Load Control 负载控制	Manual Operation Or Remote Computer Operation 手动面板控制或远程计算机自动控制						
Load control Capability 调节能力	Power segment load as percentage of or Power required for load 功率段百分比加载或按照所需功率加载						
Operation Method 工作方式	Continuous Operation 连续工作						
Power Supply 工作电源	AC380V/50Hz/ three phase four wire system AC380V/50Hz/三相四线						
Altitude 使用海拔高度 (m)	≥3000M						
Ambient Temp 温度环境	-10°C~ +55°C						
Cooling 冷却方式	Air forced 强制风冷						
Instrument Display 仪表显示	3 Phase Voltage, Current, Frequency, Power etc 三相电流、三相电压、频率、功率						
Load Protection 负载保护	Short-circuit, Overvoltage, Overcurrent, High temperature ,lowest air flow 短路、过压、过流、高温、风量保护						
Test Standards 系统标准	Meets the requirements of national,marine,military,and telecommunication test (optional) 满足国标、船标、军标、通信标准的测试						
Resistive load bank size 外型尺寸	2000x2000x1800 (LxWxH)mm	2500x2500x2000 (LxWxH)mm	3000x3000x2000 (LxWxH)mm	4000x2438x2591 (LxWxH)mm Outdoor 户外型集装箱	5000x2438x2591 (LxWxH)mm Outdoor 户外型集装箱	6058x2438x2591 (LxWxH)mm Outdoor 户外型集装箱	6058x2438x2591 (LxWxH)mm Outdoor 户外型集装箱
Weight 重量	600KG	2000KG	3000KG	4000KG	5500KG	6500KG	750KG