

60KW 直流测试负载箱

60KW DC LOAD BANK

Sikes Electric(HK)Co.,Limited

(60KW/DC450V)

技术方案

Technical program

60KW /450V 直流负载箱技术部分

60KW/450V DC load bank technical parts

1. DC Load Bank

直流干式负载装置总装机容量 60KW、电压 DC450V。
DC dry load bank total capacity is 60KW, voltage: DC450V.
直流干式阻性负载箱内部分为 2 个区域，前面为电气控制室及主电路元器件安装室，箱体后边为电阻安装位置。电阻区有独立的冷却风机，保证了整个系统的散热和使用寿命。
The DC dry resistive load box is divided into two areas, the front is the electrical control room and the main circuit component installation room, and the rear of the box is the resistance installation position. Resistance area has cooling fan, ensuring the cooling and the service life of the whole system.

2.主要技术参数 Main technical parameters

60KW /DC450V 直流负载柜技术参数 DC LOAD-BNAK SPECIFICATIONS

序号NO.	项目Items	技术参数Specifications
(1)	产品型号Model	SKS-RDC-60KW/450VDC
(2)	总功率Total Power	60KW
(3)	功率分档Load steps	10KW/10KW/20KW/20KW
(4)	额定电压Rated voltage	450VDC
(5)	功率因数Power Factor	1
(6)	额定频率Rated Frequency	/
(7)	电阻阻值精度Resistance Precision	≤±5%
(8)	数据监控Data monitoring	电流/电压/功率表 Current/Voltage/Power Meter
(9)	负载保护Load Protection	负载高温报警，高温保护；总过流保护；低风压保护；急停按钮可快速切断总回路 Load high temperature alarm, high temperature protection; total overcurrent protection; low wind pressure protection; emergency stop button can quickly cut off the main circuit
(10)	工作方式Operating Mode	长时间持续工作 Continuous work for a long time
(11)	控制方式Control	直流继电器控制方式 DC relay control method
(12)	工作电源（散热风机等电源）	单相220V，50HZ Single 220V, 50Hz
(13)	负载冷却方式Load Cooling Type	风机强制风冷，侧边进风，后面出风设计；风机噪音1米外小于70db Fan forced air cooling, side air inlet, rear air design; fan noise less than 70db 1 meter away
(14)	防护等级IP Grade	IP20
(15)	使用海拔高度Use the Altitude	<2500米 <2500meters

LOAD-BANK SPECIFICATIONS

(16)	工作环境温度Operating Ambient Temperature	-15℃~+55℃
(17)	负载产品尺寸load Bank Product Dimensions	负载箱尺寸Load-bank Dimensions (mm)
(18)	产品安装位置Installation Position	室内indoor
(19)	负载柜重量load bank weight	Kg
(20)	安装运输 Installation Transportation	底部有脚轮，顶部有吊环，方便移动 Casters at the bottom and rings at the top for easy movement

3.1.主要部件 Main components

系统主要由负载箱体、电阻器、现场数据采集、 加卸载控制、散热装置及辅助控制几部分组成.

System make up of the load bank, resistors、 data collection, control switch , cooling devices and auxiliary control and so on.

负载箱体部分:测控数据采集部分;仪表及取样器件;专用加载控制板;阻性负载采用特制不锈钢电阻;散热装置及辅助控制:采用轴流风机,强制风冷,高温等多重保护,并有故障报警。

Part of load bank: test and control data collection; instruments and sampling devices; special load control panel; resistive load used special stainless steel resistance; cooling devices and auxiliary control; use axial fans, forced air-cooled, high temperature protection, with fault alarm; touch screen smart addition.

3.2.负载箱体及支架 Load box and bracket

箱体采用特种箱改造而成,框架设计上充分考虑通风散热、吊装问题、内部元器件合理布置便于维护操作等因素。内部支架及箱体间的安装固定采用设计好的螺栓连接。

Using special containers, take full account of ventilation and lifting, rational arrangement of internal components to facilitate maintenance operations . Etween the internal frame and bank fixed with designed bolted .

3.3.电阻器 Resistors

采用制合金电阻,具有良好的耐蚀性、耐热性,低温强度和机械性能;冲压、弯曲等热加工性好,无热处理硬化现象(无磁性,使用温度-196℃~1200℃)。

Use of special alloy resistance, good corrosion resistance, heat resistance, low temperature strength and mechanical properties; Stamping, bending and others good thermal processing , no heat hardening (non-magnetic temperature-196℃ ~ 1200℃).

3.4.散热风机 Cooling fan

选用高速轴流风机，根据总发热量匹配大功率轴流风机，对发热负载进行散热，让负载长期连续正常工作。

Choose high speed fan, match power axial fans based on the total heat, cooling down the load, long-term continuous work.

4.控制部分 Control section

所有控制总线，标注号码，引入负载箱接线端子排。

All wires print numbers cleared, easy operation, and gathered to the terminal blocks on load bank.

5.技术文件 Technology File

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