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负载箱分类 >>>

按组合方式分类：

- 1.纯阻性负载箱
- 2.阻容负载箱
- 3.阻感负载箱
- 4.阻感容一体负载

按操控方式分类：

- 1.本地手动操控
- 2.远程操控
- 3.本地操控+远程操控

按电压类型分类：

- 1.交流单相负载箱
- 2.交流三相负载箱
- 3.直流负载箱
- 4.高压负载箱

按冷却方式分类：

- 1.自然冷却
- 2.风机冷却
- 3.水冷却(自来水/去离子水)
- 4.油冷却(变压器油)

正阳兴负载箱优势 >>>

- 1.团队具备行业22年设计、生产、销售、服务经验
- 2.国内最早生产水冷电阻系列产品，并完全替代欧美产品
- 3.国家高新技术企业、深圳高新技术企业、深圳诚信合作单位
- 4.业界最早通过ISO及IATF 16949国际质量体系管控，品质更加保证（行业第二家通过此项认证）
- 5.拥有世界500强企业服务经验，是中兴，中机，中船，中广核，中国航天等多家国企、央企供应伙伴，是民企多个龙头企业合作商。
- 6.拥有24项实用新型专利，2项发明专利

风冷阻负载DRLB/水冷负载SLRB



负载箱产品体系图>>>

动力电池短路测试负载箱



直流可调负载箱



水冷负载箱



不锈钢电阻箱



负载箱产品体系图>>>

制动电阻箱



交流可调负载箱



无极可调电阻箱



智能负载箱



中性点接地电阻柜



动力电池短路试验负载电阻箱 (Power Batteries Short Circuit Testing Load Bank) DRLB 3KW-5MW

动力电池短路试验负载电阻箱阻值低,温度系数低,电流大,性能稳定!

Low Resistance Value & Low T.C.R, High Current, Stable Performance.



■ 适用范围 (Application)

深圳市正阳兴电子的系列动力电池短路试验负载电阻生产周期为3-4周，也可用于试验测试设备如充电桩测试，蓄电池测试，通信设备老化，电源检测设备，UPS,DCDC等。

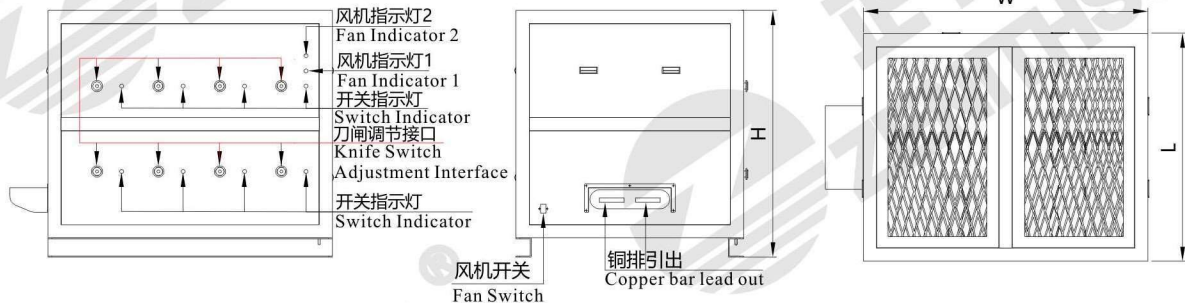
Production Time :3-4 weeks

Widely used for test equipment, such as charging pile test, batteries test, aging of communication equipment, power detection equipment, UPS, DCDC, etc.

■ 产品介绍(Introduction)

- 1.动力电池短路测试负载电阻箱为正阳兴明星产品,已申请通过国家发明专利和实用新型专利。该产品用于动力电池短路测试，可以根据测试需要设计制作能满足短时间测试和长时间测试的要求，性能稳定，安全可靠。该产品已得到TUV、宁德时代、国轩等国内外最有影响力的行业巨头所认可。
The load bank is Star product of Zenithsun, won the Chinese invention patent and utility model patent. Zenithsun can design and manufacture load banks according to testing requirements, to meet short-time and long-time testing, stable performance safe and reliable. This products have been recognized by influential industry giants at home and abroad, such as TUV, CATL, GOTION HIGH-TECH, and so on.
- 2.额定功率范围：一般为1KW-5MW(可按要求定制)。
Power Range: 1kW - 5MW (others on request).
- 3.调节电流范围：0.1A-50KA
Current Range: 0.1A - 50KA
- 4.工作电压范围：5V-1000V,可按要求。
Working Voltage Range: 5V-1000V (others on request)
- 5.可根据要求设计具备多项安全保护功能：短路、过流、过压、过载、过温、风机故障、声光报警装置等。
Multiple safety protection functions : short circuit, over-current, over-voltage, over-load, over temperature, fan fault, audible and visual alarm device, etc.
- 6.可根据要求设计带有RS232、RS485与PC机连接，实行远程控制。
It can be designed with RS232 and RS485 to connect with PC for remote control.

■ 产品尺寸图表 (Dimension Chart)



图一 (主视图)

图二 (右视图)

图三 (俯视图)

主要参数(Main Parameters)

标称阻值 Ω Ohm	可短时允许通流 (A) 范围 short-time maximum current range (A)	工作时间s working time	说明 Note
1m Ω	1000-16000A,常用(Usual current)5KA, 6KA, 8KA,10KA	5s-300s	一般需求是2个段位以上的组合 可以多个选择,产品尺寸依据需 方选择而定。 Generally, load with combination of 2 or more Ohm values is very popula -r for multiple choices. Load banks custom dimenison is ava -ilable.
5m Ω	1000-15000A,常用(Usual current)5KA,10KA,12KA,15KA		
10m Ω	1000-15000A,常用(Usual current)4KA, 5KA, 8KA,10KA		
15m Ω	1000-15000A,常用(Usual current)5KA, 7KA, 12KA		
20m Ω	1000-15000A,常用(Usual current)3KA, 6KA, 8KA,10KA		
30m Ω	1000-15000A,常用(Usual current)2KA, 5KA, 8KA,10KA		
40m Ω	1000-15000A,常用(Usual current)5KA, 6KA, 8KA,12KA		
50m Ω	1000-15000A,常用(Usual current)4KA, 5KA, 8KA,10KA		
60m Ω	1000-15000A,常用(Usual current)2KA, 6KA, 8KA,10KA		
80m Ω	1000-15000A,常用(Usual current)3KA, 6KA, 8KA,10KA		
100m Ω	1000-15000A,常用(Usual current)1KA, 2KA, 6KA,10KA		
110m Ω	1000-12000A,常用(Usual current)1KA, 2KA, 6KA,10KA		
120m Ω	1000-12000A,常用(Usual current)3KA, 5KA, 6KA,10KA		
150m Ω	1000-12000A,常用(Usual current)3KA, 5KA, 6KA,10KA		
200m Ω	1000-12000A,常用(Usual current)3KA, 5KA, 6KA,10KA		

交流负载箱(AC load bank)DRLB 3KW-5MW

交流负载箱可多级多路调节，精细化调节，可长期满载,安全稳定,实行定制满足您个性化需求！

Achieve multi-level multi-channel adjustment, fine regulation, long-term full load, safe & stable, custom requests can be achievable!



■ 产品介绍(Introduction)

1.交流负载箱是用于对交流电源设备的检测和维护，还可以用于对各类开关、接触器的性能检测以及配载、老化、模拟负载试验等等。

It is used for the detection and maintenance of AC power supply equipment, performance testing of various switches and contactors, loading, burn-in, simulated load test, etc.

2.额定功率范围：一般为3KW-5MW（超大功率的可按要求定制）。

Power Range: 1kW - 5MW (others on request).

3.调节电流范围：0.1A-15000A

Current Range: 0.1A - 15000A.

4.工作电压范围：单相或三相，具体可按客户要求。

Working Voltage Range: single phase, 3 phases, or custom requests.

5.可根据要求设计具备多项安全保护功能：短路、过流、过压、过载、过温、风机故障、声光报警装置等。

Multiple safety protection functions: short circuit, over-current, over-voltage, over-load, over temperature, fan fault, audible and visual alarm device, etc.

6.可根据要求设计带有RS232、RS485与PC机连接，实行远程控制。

It can be designed with RS232 and RS485 to connect with PC for remote control.

7.传统的为风机散热形式，也可制作成水循环冷却形式。

Forced air cooling and water cooled are available.

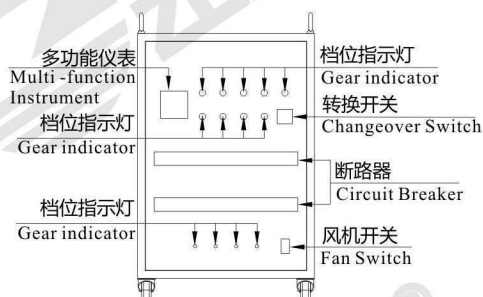
■ 适用范围 (Application)

深圳市正阳兴电子的系列交流负载箱生产周期为3-4周，主要应用于试验测试设备如发电机负载，充电桩测试，逆变电源，数据中心测试，服务器机房负载测试，UPS等。

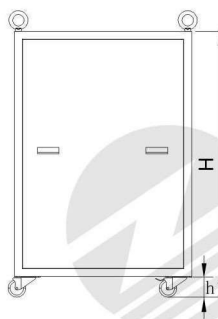
Production Time :3-4 weeks .

Widely used in test equipment, such as generator load, charging pile test, inverter power supply, data center test, server room load test, UPS, etc.

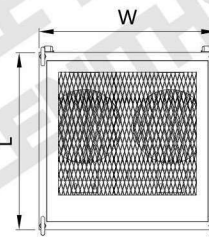
■ 产品尺寸图表(Dimension Chart)



图一（主视图）



图二（右视图）



图三（俯视图）

交流负载箱尺寸表(单位:mm) / Dimensions (mm)

功率 Power	L±5	W±5	H±5	h±5	功率 Power	L±5	W±5	H±5	h±5	说明 Note
3KW	580	380	250	70	100KW	850	850	1400	150	1.此为内置大功率绕线电阻带数据采集、调节器、风机该尺寸仅供参考，可根据客户要求定制尺寸适情况调整。 Built-in high power wirewound resistors with data acquisition, regulator and fans. The sizes are only for reference, also can be custom requests. 2.也可内置铝壳电阻，高能电阻，合金电阻，板型电阻.不锈钢电阻水冷电阻等，尺码适情况调整。 Build- in aluminum housed Resistors or high power resistors or plate wirewound resistors or stainless steel resistors or water cooled resistors ;
5KW	680	380	250	70	120KW	900	850	1400	150	
6KW	680	450	250	70	150KW	900	850	1500	150	
8KW	450	500	700	70	200KW	1000	850	1500	150	
10KW	500	500	800	100	300KW	1400	1200	1650	150	
15KW	500	550	800	100	400KW	1500	1200	1800	150	
20KW	600	600	800	100	500KW	1500	1400	1800	150	
25KW	600	650	800	100	600KW	1500	1500	1800	150	
30KW	600	650	1000	100	800KW	1800	1500	1900	150	
40KW	680	680	1100	100	1000KW	2000	1500	1900	150	
50KW	680	680	1200	100	1200KW	2000	1600	1900	150	
60KW	850	850	1200	100	1500KW	2200	1600	1900	150	
80KW	850	850	1300	150	2000KW	2400	1800	2000	150	

备注：如有特殊要求或者参数超出以上标准协商供货(Note: Others on request)

直流负载箱(DC load bank)DRLB 3KW-5MW

直流负载箱可多级多路调节,精细化调节,可长期满载,安全稳定,实行定制满足您个性化需求!
Achieve multi-level multi-channel adjustment, fine regulation, long-term full load, safe & stable, custom requests can be achievable!



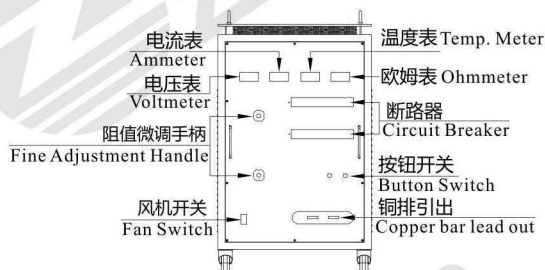
■ 产品介绍(Introduction)

- 1.直流负载箱是用于对直流电源设备的检测和维护，还可以用于对各类开关、接触器的性能检测以及配载、老化、模拟负载试验等等。
It is used for the detection and maintenance of DC power supply equipment, performance testing of various switches and contactors, loading, burn-in, simulated load test, etc.
- 2.额定功率范围：一般为3KW-5MW（超大功率的可按要求定制）。
Power Range: 1kW - 5MW (others on request).
- 3.调节电流范围：0.1A-15000A
Current Range: 0.1A - 15000A.
- 4.工作电压范围：1V-10KVDC，具体可按要求设计制作。
Working Voltage Range: 1V-10KVDC (other on request)
- 5.可根据要求设计具备多项安全保护功能：短路、过流、过压、过载、过温、风机故障、声光报警装置等。
Multiple safety protection functions : short circuit, over-current, over-voltage, over-load, over temperature, fan fault, audible and visual alarm device, etc.
- 6.可根据要求设计带有RS232、RS485与PC机连接，实行远程控制。
It can be designed with RS232 and RS485 to connect with PC for remote control.
- 7.传统的为风机散热形式，也可制作成水循环冷却形式。
Forced air cooling and water cooled are available.

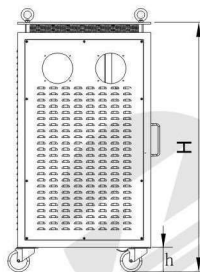
■ 适用范围 (Application)

深圳市正阳兴电子的系列直流负载箱生产周期为3-4周，主要应用于试验测试设备如充电桩测试，蓄电池测试，通信设备老化，电源检测设备，UPS，DCDC等。
Production Time :3-4 weeks .
Widely used in test equipment, such as charging pile test, batteries test, aging of communication equipment, power detection equipment, UPS, DCDC, etc.

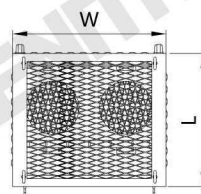
■ 产品尺寸图表(Dimension Chart)



图一（主视图）



图二（右视图）



图三（俯视图）

直流负载箱尺寸表(单位:mm) / Dimensions (mm)

功率 Power	L±5	W±5	H±5	h±5	功率 Power	L±5	W±5	H±5	h±5	说明 Note
3KW	580	380	250	70	100KW	850	850	1400	150	1.此为内置大功率绕线电阻带数据采集、调节器、风机该尺寸仅供参考，可根据客户要求定制尺寸适情况调整。 Built-in high power wirewound resistors with data acquisition, regulator and fans. The sizes are only for reference , also can be custom requests. 2.也可内置铝壳电阻，高能电阻，合金电阻，板型电阻.不锈钢电阻水冷电阻等，尺码适情况调整。 Build- in aluminum housed Resistors or high power resistors or plate wirewound resistors or stainless steel resistors or water cooled resistors ;
5KW	680	380	250	70	120KW	900	850	1400	150	
6KW	680	450	250	70	150KW	900	850	1500	150	
8KW	450	500	700	70	200KW	1000	850	1500	150	
10KW	500	500	800	100	300KW	1400	1200	1650	150	
15KW	500	550	800	100	400KW	1500	1200	1800	150	
20KW	600	600	800	100	500KW	1500	1400	1800	150	
25KW	600	650	800	100	600KW	1500	1500	1800	150	
30KW	600	650	1000	100	800KW	1800	1500	1900	150	
40KW	680	680	1100	100	1000KW	2000	1500	1900	150	
50KW	680	680	1200	100	1200KW	2000	1600	1900	150	
60KW	850	850	1200	100	1500KW	2200	1600	1900	150	
80KW	850	850	1300	150	2000KW	2400	1800	2000	150	

备注：如有特殊要求或者参数超出以上标准协商供货(Note: Others on request)

水冷负载箱(Water cooled load bank)SLRB 3KW-5MW

大功率、小体积、水循环冷却低温度型电阻,消除传统方式的去离子水高成本

High Power, small size, water circulation cooled, low temperature, eliminates the high cost of traditional deionized water.



■ 适用范围 (Application)

深圳市正阳兴电子的系列水冷负载箱生产周期为3-4周，主要应用于试验测试设备如发电机负载，充电桩测试，蓄电池测试，通信设备老化，UPS,DCDC等。

Production Time :3-4 weeks.

Widely used in test equipment, such as generator load, charging pile test, battery test, aging of communication equipment, UPS, DCDC, etc.

■ 产品介绍(Introduction)

1. 水冷电阻是由流动的自来水（或蒸馏水或其它液态）进行循环冷却的电阻器，消除了传统方式的去离子水高成本。

It is circularly cooled by flowing tap water (or distilled water or other liquid), eliminates the high cost of traditional deionized water.

2. 水冷电阻具有功率大、体积小，工作稳定，高绝缘，密封性好，温度低，使用寿命长的特点。

High power, small size, stable operation, high insulation, good sealing, low temperature and long service life.

3. 额定功率范围：一般为3KW-5MW（可按要求定制）。

Power Range: 1kW - 5MW (others on request).

4. 调节电流范围：0.1A-15000A。

Current Range: 0.1A - 15000A.

5. 工作电压范围：一般为5V-1000V,交直流均可适用。

Working Voltage Range: 5V-1000V, for AC or DC.

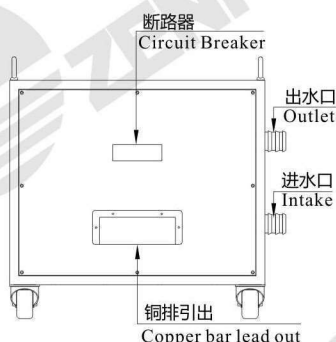
6. 可根据要求设计具备多项安全保护功能：短路、过流、过压、过载、过温、声光报警装置等。

Multiple safety protection functions: short circuit, over-current, over-voltage, over-load, over temperature, fan fault, audible and visual alarm device, etc.

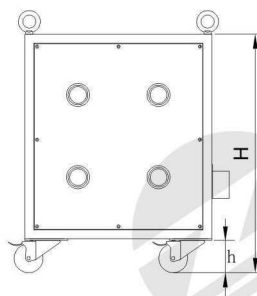
7. 可根据要求设计带有RS232、RS485与PC机连接，实行远程控制。

It can be designed with RS232 and RS485 to connect with PC for remote control.

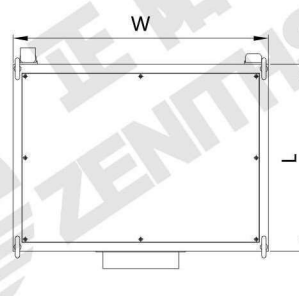
■ 产品尺寸图表(Dimension Chart)



图一 (主视图)



图二 (右视图)



图三 (俯视图)

水冷负载箱尺寸表(单位:mm) / Dimensions (mm)

功率 Power	L±5	W±5	H±5	h±5	功率 Power	L±5	W±5	H±5	h±5	说明 Note
3KW	530	300	250	70	100KW	700	600	1450	150	可配套冷却系统、水泵、水箱、连接管道电缆等。 Water pump, water tank, connecting pipeline, cable, etc.(optional)
5KW	530	300	250	70	120KW	900	850	1400	150	
6KW	600	400	250	70	150KW	900	850	1500	150	
8KW	600	500	300	70	200KW	1000	850	1500	150	
10KW	600	600	400	100	300KW	1000	850	1650	150	
15KW	600	600	550	100	400KW	1000	1000	1800	150	
20KW	600	600	600	100	500KW	1500	1400	1800	150	
25KW	600	600	650	100	600KW	1500	1500	1800	150	
30KW	600	600	700	100	800KW	1800	1500	1900	150	
40KW	700	600	800	100	1000KW	2000	1500	1900	150	
50KW	700	650	800	100	1200KW	2000	1600	1900	150	
60KW	750	750	800	100	1500KW	2200	1600	1900	150	
80KW	850	850	1000	150	2000KW	2400	1800	2000	150	

备注：如有特殊要求或者参数超出以上标准协商供货(Note: Others on request)

智能负载箱(Intelligent Load Bank)RLC 3KVA-5MVA

智能负载箱可选择阻感、阻容、阻感容一体化设计,也能多路负载,PLC程控,实行定制满足您个性化需求!

Resistive-Inductive Load, Resistive-Capacitive Load, Resistive-Inductive-Capacitive Load are available, Multi-channel Load, Remote Control, custom requests can be available!



■ 产品介绍(Introduction)

- 1.智能负载箱可选择单相交流或三相交流,用于对交流设备的检测和维护以及配载、老化、模拟负载试验等等。
Single-phase AC Load & three-phase AC Load are available, used for detection and maintenance of AC equipment, loading, burn-in, simulated load test, etc.
- 2.额定功率范围：一般为3KVA-5MVA（可按要求定制）。
Power Range: 3KVA - 5MVA (others on request).
- 3.调节电流范围：0.1A-15000A。
Current Range: 0.1A - 15000A.
- 4.工作电压范围：一般为110V-690VAC三相或单相,可按要求。
Working Voltage Range: 110V-690VAC 3 phase or single phase.
- 5.可根据要求设计具备多项安全保护功能：短路、过流、过压、过载、过温、声光报警装置等。
Multiple safety protection functions: short circuit, over-current, over-voltage, over-load, over temperature, fan fault, audible and visual alarm device, etc.
- 6.可根据要求设计带有RS232、RS485与PC机连接，实行远程控制。
It can be designed with RS232 and RS485 to connect with PC for remote control.
- 7.传统的为风机散热形式，也可制作成水循环冷却形式。
Forced air cooling and water cooled are available.

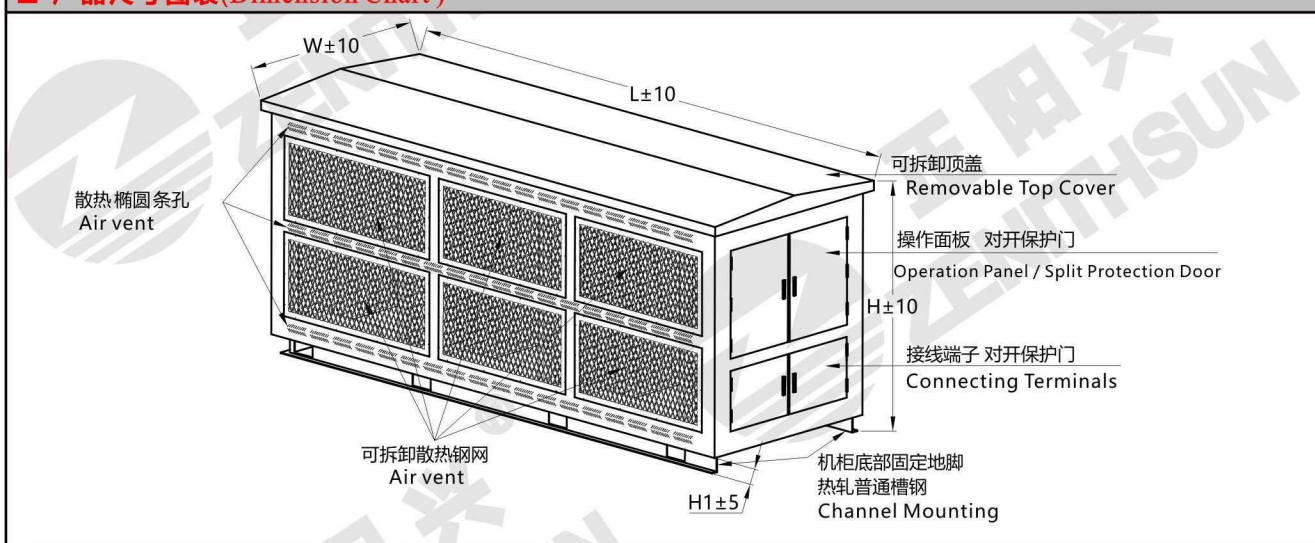
■ 适用范围 (Application)

深圳市正阳兴电子的系列智能负载箱生产周期为3-4周，主要应用于试验测试设备如发电机负载，UPS等。

Production Time: 3-4 weeks.

Widely used in test equipment, such as generator load, UPS, etc.

■ 产品尺寸图表(Dimension Chart)



智能负载箱尺寸表(单位:mm) / Dimensions (mm)

功率 Power	L±5	W±5	H±5	H1±5	功率 Power	L±5	W±5	H±5	H1±5	说明 Note
3KVA	580	380	250	70	100KVA	850	850	1400	150	
5KVA	680	380	250	70	120KVA	900	850	1400	150	
6KVA	680	450	250	70	150KVA	900	850	1500	150	
8KVA	450	500	700	70	200KVA	1000	850	1500	150	
10KVA	500	500	800	100	300KVA	1400	1200	1650	150	
15KVA	500	550	800	100	400KVA	1500	1200	1800	150	
20KVA	600	600	800	100	500KVA	1500	1400	1800	150	
25KVA	600	650	800	100	600KVA	1500	1500	1800	150	
30KVA	600	650	1000	100	800KVA	1800	1500	1900	150	
40KVA	680	680	1100	100	1000KVA	2000	1500	1900	150	
50KVA	680	680	1200	100	1200KVA	2000	1600	1900	150	
60KVA	850	850	1200	100	1500KVA	2200	1600	1900	150	
80KVA	850	850	1300	150	2000KVA	2400	1800	2000	150	

备注：如有特殊要求或者参数超出以上标准协商供货(Note: Others on request)

制动电阻箱(Brake Resistor Bank) DRLB 1KW-200KW

制动电阻箱外形美观,用材精良,可适应频繁瞬间高冲击、重复制动,使用安全方便

Beautiful appearance, excellent materials selection can, adapt to frequent instantaneous high impact and repeated braking, safe and convenient to use.



产品介绍(Introduction)

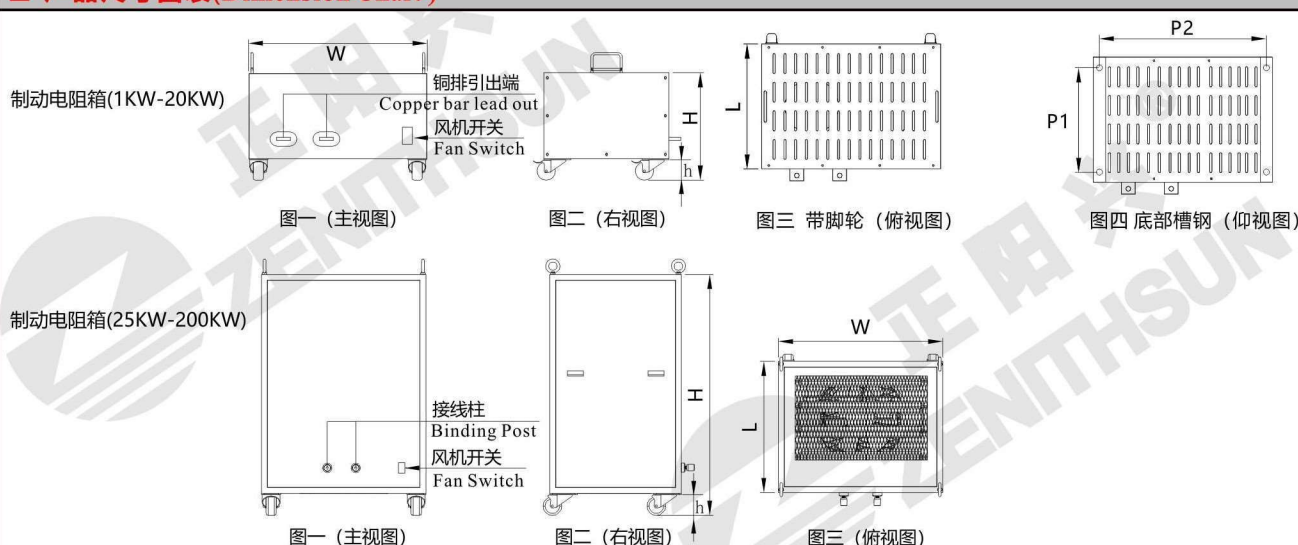
1. 制动电阻箱一般是短时工作制，断续工作制（重复制动）
内置电阻可多样化，可按要求加装过热保护。
It is short-time working and intermittent working, built-in resistor can be diversified, overheating protection can be achieved as required.
2. 额定功率范围：一般为1KW-200KW（可按要求定制）。
Power Range: 1KW-200KW (others on request).
3. 标称阻值范围：R5-1K。
Nominal value: 0.5Ω-1kΩ
4. 工作电压范围：一般为110V-1040VAC/DC, 可按要求。
Working Voltage Range: 110V-1040VAC/DC (others on request).
5. 两个或两个以上制动电阻箱(制动电阻柜)可实行并联。
Two or more brake resistor banks in parallel are available.
6. 推荐加装散热风机效果更理想，也可制作成水循环冷却形式。
Forced air cooling is recommended, water cooled type is available as well.

适用范围 (Application)

深圳市正阳兴电子的系列制动电阻箱生产周期为3-4周，主要应用于较大功率大电流设备的能耗制动，如试验测试设备、电梯、塔吊、起重机、提升机、卷扬机、离心机、带式输送机、矿用设备、油田磕头机等。

Production Time :3-4 weeks .Widely used for energy consumption braking of high-power and high current equipment, such as test equipment, elevator, tower crane, crane, hoist, winch, centrifuge, belt conveyor, mining equipment, oilfield kowtow machine, etc.

产品尺寸图表(Dimension Chart)



功率 Power	尺寸表(单位:mm) / Dimensions					备注 Note
	L±5	W±5	H±5	P1±1	P2±1	
1KW	380	150	210	100	330	1. 此为内置大功率绕线电阻，无风机，无数显，可根据客户要求添加配置，尺寸适情况调整 The built-in resistor is high power wirewound resistors, no fans, no digital meters, but can be provide if customers request, size is adjusted accordingly. 2. 也可内置铝壳电阻，高能电阻，不锈钢电阻，板形电阻，水冷电阻等，尺寸适情况调整 Internal resistors can be Aluminum Resistors, High power resistors plate resistors, stainless steel resistors, water cooled resistors, size is adjusted accordingly. 3. P1 和P2是指不带脚轮的产品，是指带槽钢的两个安装孔尺寸。 P1 & P2 for the installation holes size /load banks without castors.
2KW	590	150	210	100	540	
2KW	380	200	210	150	330	
3KW	680	150	210	100	630	
4KW	590	200	210	150	540	
4.8-5KW	680	200	210	150	630	
6KW	590	290	210	240	540	
8KW	590	380	210	330	540	
10KW	680	380	210	330	630	
15KW	680	500	210	450	630	
20KW	680	380	500	330	630	1. 此为内置大功率绕线电阻，带风机带数显，该尺寸仅供参考，可根据客户要求定制尺寸适情况调整 The built-in resistor is high power wirewound resistors, includes fans and digital meters. The size can be changed as request. 2. 也可内置铝壳电阻，高能电阻，合金电阻，板型电阻，不锈钢电阻，水冷电阻等，尺寸适情况调整 Internal resistors can be Aluminum Resistors, High power resistors plate resistors, stainless steel resistors, water cooled resistors, size is adjusted accordingly. 3. 带刹车脚轮,依功率大小调整脚轮高度,h尺寸分别有70/100/150。 With casters, adjust the caster height according to the power. The dimensions are 70/100/150.
25KW	680	600	720			
30KW	680	600	800			
40KW	550	680	900			
50KW	750	650	850			
60KW	750	680	1050			
80KW	750	750	1200			
100KW	850	850	1400			
150KW	900	850	1500			
200KW	1000	850	1500			

备注：如有特殊要求或者参数超出以上标准协商供货(Note: Others on request)

高压负载箱(High Voltage Load Bank)DRLB 1KW-200KW

高压负载箱性能稳定,超高压系列设备配套使用的优选产品,油冷方式效果最佳！

High Voltage Load Bank, Stable Performance, the optimal product for supporting the use of ultra-high voltage series equipment, oil cooling is the best.



■ 产品介绍(Introduction)

1. 高压负载箱是用于对高压电源设备的检测和维护以及
配载、模拟负载试验等等。

High voltage load bank is used for the detection and maintenance of high voltage power supply equipment, load balancing, simulated load test, etc.

2. 额定功率范围：一般为1KW-200KW(可按要求定制)。

Rated Power Range: 1KW-200KW(other on request).

3. 标称阻值范围：一般为22K-27M。

Nominal Resistance: 22K-27M.

4. 工作电压范围：一般为1000V-150KV,可按要求。

Working Voltage Range: 1KV-150KV(other on request).

5. 可根据要求设计具备安全保护功能：过温、过流、风机、故障、声光报警装置等。

Safety protection functions can be designed according to requirements: over temperature, over-current, fan fault, audible and visual alarm device, etc.

6. 可以做风机散热形式，也可制作成油冷却循环形式。

Air cooled type and oil cooled type are available.

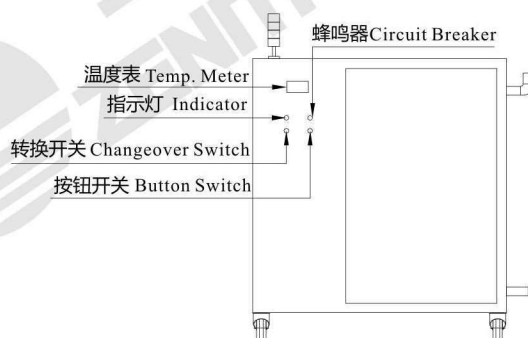
■ 适用范围 (Application)

深圳市正阳兴电子的系列高压负载箱生产周期为5-6周，
主要应用于试验测试设备如高压电源,变压器,高压电站电
网行业等。

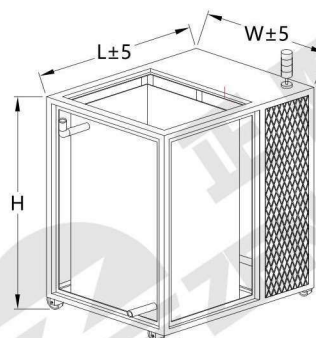
Production Time :3-4 weeks.

Widely used in test equipment, such as high-voltage power supply,
transformer, high-voltage power station, power grid industry, etc.

■ 产品尺寸图表(Dimension Chart)



图一 (主视图)



图二 (立体图)

功率 Power	高压负载箱尺寸 (单位: mm)/Dimension		
	L±5	W±5	H±5
1KW	620	800	1320
2KW	620	800	1320
3KW	620	800	1320
4KW	620	800	1320
4.8-5KW	720	800	1320
6KW	820	800	1320
8KW	920	800	1320
10KW	1150	800	1500
15KW	1250	1200	1500
20KW	1250	1400	1800
25KW	1250	1500	1800
30KW	1500	1500	1800
40KW	1800	1500	1800
50KW	2000	1500	1800
60KW	2200	1500	1800
80KW	2400	1500	1800
100KW	2600	1500	1800
150KW	2800	1500	1800
200KW	3000	1500	1800

说明
Note

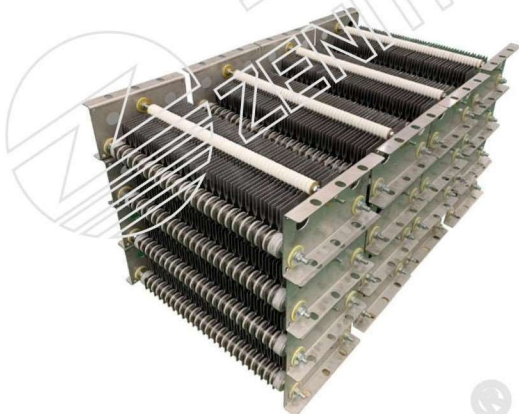
油冷却系统可配套电机、油泵、风冷散热器、滤油器以及油管。
油箱底部抽油，顶部进油。抽油口处有开关，清理滤油器时可
关闭抽油开关，再关闭电机电源，取下滤油器用风枪吹掉杂质
即可。建议使用风冷散热器，比铜管自然散热好，油的温度会
更低。

The oil cooling system can be equipped with motor, oil pump, air-cooled radiator,
oil filter and oil pipe. The oil is pumped from the bottom of the oil tank and fed from
the top. There is a switch at the pumping port. When cleaning the oil filter, turn off
the pumping switch, then turn off the power supply of the motor, remove the oil
filter and blow off the impurities with an air gun. It is recommended to use the sub
cooling radiator, which is better than the natural heat dissipation of copper pipe,
and the oil temperature will be lower.

不锈钢电阻器(Stainless Steel Resistor)BXG 1KW-40KW

适用于在交流或直流下的大电流场合,尤其适用于高冲击和强振动性环境的行业等重型设备,可长期工作

Suitable for AC or DC high current occasions under ,especially for heavy equipment in industries with high impact and strong vibration environment for a long time working.



■ 结构 (Application)

- 1.不锈钢电阻采用低温度系数合金片材料依据客户的要求通过裁剪，冲压成不同尺寸大小和形状，实行串并联方式组合。
The stainless steel resistor is made of low temperature coefficient alloy sheet. According to the requirements of customers, stamped into different sizes and shapes, and combined in series and parallel.
- 2.电阻片与电阻片之间采用绝缘材料阻隔，或采用定型耐高温瓷垫固定。
Resistors sheets are separated by insulating material or fixed by shaped high-temperature resistant porcelain pad.
- 3.引出端为不锈钢端片，可任意抽头方便客户连接。
The leading out are stainless steel terminals, which can be tapped for customer connection.

■ 产品介绍(Introduction)

适用于在交流或直流下的大电流的应用。最常见的应用领域有电机控制刹车和调速，也可以用于中性接地，谐波滤波电阻箱解决方案；坚固的设计尤其适用于高冲击和强振动性环境的行业等重型设备，例如港口/码头工控起重机、采矿设备、石油钻井、建筑塔式起重机等其它的起重、调速、动态制动或长期负载的应用领域。

该电阻是极端条件下(高振动,高温腐蚀性环境中)持续使用的理想产品。作为其基础构成材料的金属片能保证产品的持续使用和最小的阻值波动。我们能为您提供个性化设计，更好的满足您的需求，从而大大的节省空间和成本。

Suitable for AC or DC high current applications. The most common application fields are motor control, braking and speed regulation, and can also be used for neutral grounding, harmonic filtering and load banks solutions. The rugged structure is especially suitable for heavy equipment in industries with high impact and strong vibration, environment such as port / wharf industrial control crane, mining equipment, oil drilling, construction tower crane and other application fields of lifting, speed regulation, dynamic braking or long-term load. The unit is an ideal product for continuous use under extreme conditions (high vibration, high temperature and corrosive environment). The metal sheet can ensure the continuous use and the minimum resistance value fluctuation. We can provide you with personalized design to better meet your needs, so as to greatly save space and cost.

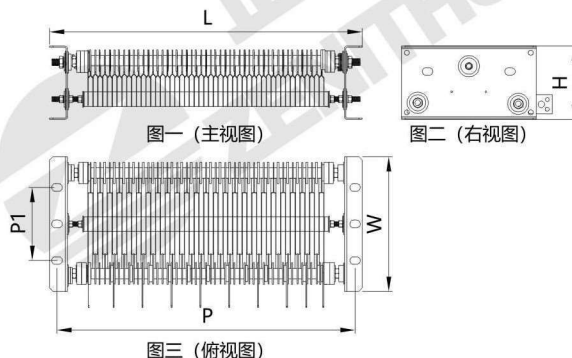
■ 适用范围 (Application)

深圳市正阳兴电子的系列不锈钢电阻生产周期为2-3周，广泛用于变频器、工控、伺服及高要求高恶劣环境。

Production Time : 2-3 weeks .

Widely used in inverter, industrial control, servo and harsh & high requirements environment.

■ 产品尺寸图表TYPE:BXG1 (Dimension Chart)



型号 Type	功率 Power	阻值范围 Resistance Range	精度 Tolerance	尺寸 Dimensions(mm)					额定电流 Rated Current	温度系数 T.C.R
				L±10	W±10	H±10	P±2	P1±2		
BXG1	1000W	0.01Ω-1.5Ω	K (±10 %) J (±5 %) G (±2 %) F (±1 %)	270	280	147	240	152	100A ~ 500A	±100PPM ~ ±1000PPM
	2000W			300	280	147	270	152		
	3000W			370	280	147	340	152		
	4000W			470	280	147	440	152		
	5000W			570	280	147	540	152		
	6000W			670	280	147	640	152		
	8000W			770	280	147	740	152		
	10000W			870	280	147	840	152		

备注 (Note):

1.感量：低感。/Inductance :Low-inductive.

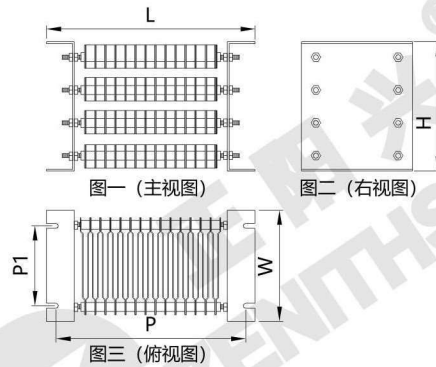
2.绝缘电压：≥5KV(50HZ/60HZ)。/Insulation Voltage: ≥5KV(50HZ/60HZ).

3.电阻极限工作温度:500℃。/Max working Temp.: 500℃.

4.绝缘电阻值:≥10MΩ(1000V兆欧表测试) /Insulation Resistance Value :≥10MΩ(1000V).

5.外观和尺寸可按客户要求设计。/Profile & Dimenison can be upon customers requests .

■ 产品尺寸图表TYPE:BXG2 (Dimension Chart)

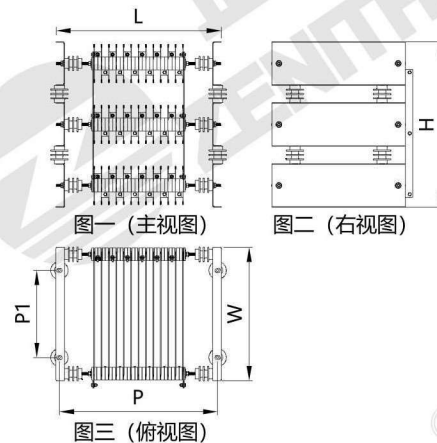


型号 Type	功率 Power	阻值范围 Resistance Range	精度 Tolerance	尺寸 Dimensions(mm)					额定电流 Rated Current	温度系数 T.C.R
				L±10	W±10	H±10	P±2	P1±2		
BXG2	8KW-10KW	0.01Ω-3.3Ω	K (±10 %)	600	350	450	570	350	100A ~ 500A	±100PPM ~ ±1000PPM
	15KW		J (±5 %)	650	350	450	620	350		
	20KW-25KW		G (±2 %)	700	350	450	670	350		
	30KW		F (±1 %)	750	350	450	720	350		
	40KW			800	350	450	770	350		

备注 (Note):

- 1.感量: 低感。
- 2.绝缘电压: ≥5KV(50HZ/60HZ)。
- 3.电阻极限工作温度:500℃。
- 4.绝缘电阻值:≥10MΩ(1000V兆欧表测试)
- 5.外观和尺寸可按客户要求设计。

■ 产品尺寸图表TYPE:BXG3 (Dimension Chart)



型号 Type	功率 Power	阻值范围 Resistance Range	精度 Tolerance	尺寸 Dimensions(mm)					额定电流 Rated Current	温度系数 T.C.R
				L±10	W±10	H±10	P±2	P1±2		
BXG3	1KW-3KW	4.7Ω-200Ω	K (±10 %)	570	460	150	540	300	100A ~ 500A	±100PPM ~ ±1000PPM
	4KW		J (±5 %)	570	460	360	540	300		
	5KW-6KW		G (±2 %)	570	460	570	540	300		
	8KW		F (±1 %)	670	460	570	640	300		
	10KW			770	460	570	740	300		

备注 (Note):

- 1.感量: 低感。
- 2.绝缘电压: ≥5KV(50HZ/60HZ)。
- 3.电阻极限工作温度:500℃。
- 4.绝缘电阻值:≥10MΩ(1000V兆欧表测试)
- 5.外观和尺寸可按客户要求设计。

中性接地电阻柜(Neutral Grounding Load Bank)DRLB 380V-69KV R1-1K5

中性点接地电阻柜针对性强,阻值稳定,耐高温,抗冲击能力强,使电力系统安全运行、供电可靠性、用户用电安全！

Strong pertinence, stable resistance value, resistance high temperature and resistance strong impact, to ensure the safe operation of power system, power supply reliability and user power safety!



■ 适用范围 (Application)

深圳市正阳兴电子的系列中性接地电阻柜生产周期为3-4周, 主要应用于发电厂用电系统、变电所供电系统、工矿企业配电系统中, 实现这些电网采用中性点经电阻接地达到零序电流检测功能, 保证系统正常运行方式

Production Time :3-4 weeks .It is mainly.

Widely used in power plant power consumption system, substation power supply system and industrial and mining, enterprise power distribution system to realize the zero sequence current detection function, by inserting neutral grounding resistor between neutral and ground among these grids, so as to ensure the normal operation mode of the system.

■ 产品介绍(Introduction)

1. 中性点电阻接地就是在电网中性点与地之间串联接入某一电阻器。适当选择所接电阻器的阻值, 不仅可以泄放单相接地电弧后半波的能量, 从而减少电弧重燃的可能性, 抑制电网过电压的幅值, 还可以提高继电保护装置的灵敏度以作用于跳闸, 从而有效保护系统正常运行。

Inserting an Neutral Grounding Resistor between neutral and ground in series. Proper selection of the resistance value of the connected resistor can not only discharge the energy of the second half wave of the single phase grounding arc, so as to reduce the possibility of arc reignition, and suppress the radiation value of grid overvoltage, but also improve the sensitivity of the relay protection device to act on tripping, so as to effectively protect the normal operation of the system.

2. 标称阻值范围: 一般为R1-1500R(可按要求定制)。

Nominal Value: 0.1 Ohm-1500 Ohm(customized as required).

3. 阻值精度: ±5%

Tolerance: ±5%.

4. 适用电压范围: 一般为380V-69KV, 可按要求。

Voltage Scope: 380V-69KV(customized as required).

5. 允许通流时间: 可选10s, 30s, 60s, 10Min连续运行。

Allowable flow time: 10s, 30s, 60s and 10min continuous operation are optional.

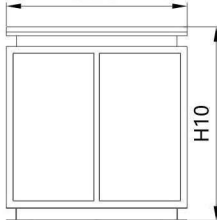
■ 产品尺寸图表(Dimension Chart)

中性点接地电阻柜

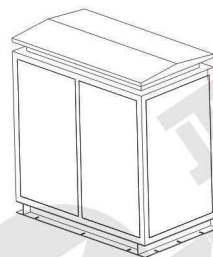


图一 (主视图)

L±10



图二 (右视图)



图三 (立体图)

中性点接地电阻柜尺寸 (单位: mm) / Dimension

系统额定电压 (KV) System rated voltage(KV)	电阻柜额定电压 (KV) Rated voltage(KV)	短时允许通流 (A) Short time allowable current	标称阻值 Nominal value	L±5	W±5	H±5	说明 NOTE
6.3	3.64	100	36R4	1600	800	1200	内置高能电阻 或不锈钢电阻。 High Power Wire- wound or Stainless Steel Resistors build in
6.3	3.64	200	18R2	1600	800	1200	
6.3	3.64	300	12R1	1600	800	1200	
6.3	3.64	400	9R1	1600	800	1200	
6.3	3.64	600	6R06	1600	800	1200	
6.3	3.64	1000	3R64	1600	800	1200	
10	5.77	400	14R4	1800	800	1200	
10	5.77	600	9R6	1800	800	1200	
10	5.77	1000	5R77	1800	800	1200	
10.5	5.77	400	15R	1800	800	1200	
10.5	5.77	600	10R	1800	800	1200	
10.5	5.77	1000	6R	1800	800	1200	
35	20	200	100R	2600	1500	2300	
35	20	600	33R7	2600	1500	2300	
35	20	1000	20R	2600	1500	2300	
35	20	1300	15R5	2600	1500	2300	
35	20	2000	10R	2600	1500	2300	
备注：如有特殊要求或者参数超出以上标准协商供货(NOTE: Other on request)							

无极可调电阻箱(Continuing Adjustable Load Bank)DSTB/DSYB 100W-60KW

无极可调电阻箱高端产品,外形美观,配置多功能化,调节精确度高,使用非常安全方便!
Beautiful Appearance, Multifunctional Configuration, High Accuracy Adjustment, safe & convenient for use



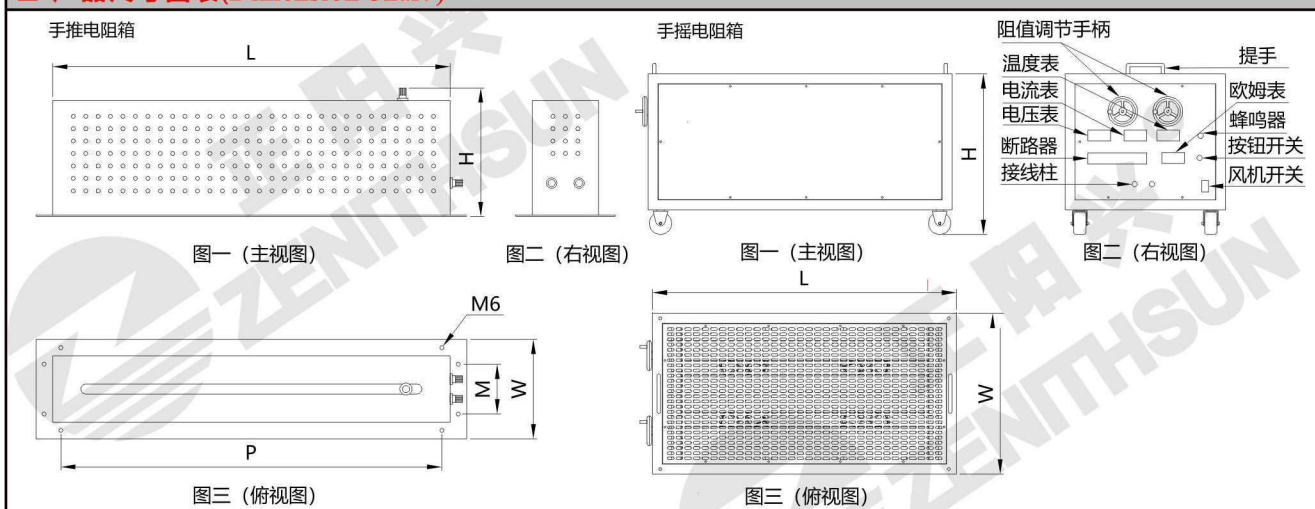
■ 产品介绍(Introduction)

1.在DST/DSY电阻的基础上根据用户的需要可将电阻加装温控装置,数字刻度尺,以及为安全、美观、使用方便的需要我们推荐最好做成电阻箱的形式,可以实现加装散热风机、温控保护、过流过压保护,报警装置、多功能数显(可数字显示功率、阻值、电流、电压、频率等)和单台交直流两用功能。
On the basis of DST / DSY sharp, the resistors can be equipped with temperature control device.
For safety, beauty and convenience, we recommend that it should be made into the form of load bank, which can realize the installation of heat dissipation fan, temperature control protection, overcurrent and overvoltage protection, alarm device, multi-functional digital display (digital display of power, resistance, current, voltage, frequency, etc.) and single unit with AC and DC dual-purpose functions.

■ 适用范围 (Application)

深圳市正阳兴电子的系列无极可调电阻箱生产周期为3-4周,广泛用于电力、通讯、航天、等各行业及发电机组, 变压器、UPS电源、蓄电池、太阳能、风能、焊机等领域和各大院校测试、负载使用。
Production Time :3-4 weeks .Widely used in electric power, communication, aerospace, and other industries and power generation sets, transformer, UPS power supply, storage battery, solar energy, wind energy, welding machine and otds, as well as the testing and load use by major colleges and universities.

■ 产品尺寸图表(Dimension Chart)



DSTB无极可调电阻箱尺寸 (单位: mm) / Dimension						DSYB无极可调电阻箱尺寸 (单位: mm) / Dimension							
功率 Power	L±5	W±1	H±2	M±2	P±2	功率 Power	L±5	+仪表L	W±1	H±2	+风机H	M±2	P±2
100W	313	120	142	60	252	800W-1KW	445	545	200	320	420	130	425
150W	360	120	142	60	300	1500W	580	660	200	320	440	130	540
200W-250W	410	120	142	60	350	2KW	655	755	200	320	420	130	625
300W	410	120	166	60	350	2.5-3KW	745	845	200	320	420	130	715
400W	475	120	166	60	415	4KW	610	710	250	350	450	/	/
500W-600W	480	130	166	70	420	5KW	680	780	250	350	450	/	/
750W	560	130	166	70	500	6KW	780	880	250	350	450	/	/
800W-1KW	530	170	226	100	335	10KW	800	900	300	500	650	/	/
1500W	530	170	226	100	335	12KW-15KW	860	1060	300	500	650	/	/
2KW	625	170	226	100	470	20KW	860	1060	300	500	650	/	/
2.5KW-3KW	715	170	226	100	655	20KW-30KW	860	960	550	500	650	/	/
4KW	580	200	276	110	520	40KW	1200	1300	550	500	670	/	/
5KW	650	200	276	110	590	50KW	1200	1300	750	500	700	/	/
6KW	750	200	276	110	690	60KW	1200	1300	750	500	700	/	/
10KW	750	250	350	120	690	备注: 1.可随客户要求加装风机,仪表,保护装置,报警装置等. Fans, instruments, protection devices, alarm devices, etc. can be available; 2.无特殊要求风机一般加装在底部,可随客户需求装侧部. Fans are generally installed at the bottom or can be installed at the sides;							
12KW-15KW	800	250	350	120	740								
20KW	1150	250	350	120	1090								

3.可实现双管同时调,三管同时调(三相同步调),单台交直流两用,可时时显示功率,阻值,电流,电压,频率等。
Two phase or three phase can be adjustable synchronization, single unit AC / DC dual-purpose, can display power, resistance, current, voltage, frequency, etc.

■ 负载箱/负载柜的制作范围(Load Bank Production Scope)

深圳正阳兴电子科技有限公司拥有在电阻界20多年的研发与制造经验，拥有专业的负载箱、负载柜研发团队和生产团队；拥有完善的测试设备及测试方案，不断更新、调整技术去响应各界客户的需求，生产出不同类别（风冷型/水冷型）、不同款式的负载箱、负载柜。正阳兴可满足大功率（单台1KW到5MW）、大电压（常见交/直流5V到1000V）或大电流（单台可到30000A以上）等电气参数，根据需要设计调节档位，配置智能数显表，各类保护措施（如过温保护，过流过压保护，声光报警装置）等，另外我们水冷负载箱/柜也可以配置冷却系统及水塔，全方位满足客户个性化需求。

It has more than 20 years of R & D and manufacturing experience in the resistor industry, and has a professional R & D team & production team for load banks; It has perfect test equipment and test scheme, constantly updates and technology, to respond to the requests of customers from all walks of life, and produces different types (air-cooled / water-cooled) and different styles of load banks. ZENITHSUN can meet the electrical parameters such as high power (1kW to 5MW for a single set), high voltage (common AC / DC 5V to 1000V) or high current (more than 30000A for unit) (such as over-temperature protection, over-current and over-voltage protection, audible and visual alarm device), etc. in addition, the water-cooled load banks can also be equipped with cooling system and water tower, fully meet the personalized needs of customers.

1. 功率范围：单台1KW-5MW/3KVA-5MVA。

Power Scope: single unit 1KW-5MW/3KVA-5MVA.

2. 负载装置：阻性、感性、容性、阻感、阻容、阻感容一体化。

Load Types: resistive, reactive, capacitive, resistive & reactive or LCR.

3. 工作电压：AC单相或三相/DC 1V-1000V，超高压6KV,10KV,35KV等选择。

Working Voltage: AC single phase or 3 phase/DC 1V-1000V, ultra voltage 6KV,10KV,35KV, etc.

4. 工作电流：1A-50KA。

Working Current: 1A-50KA.

5. 工作模式：固定式、多档位可调式或无极可调式。

Working Modes: fixed type, variable type with load steps or continuing adjustable type.

6. 散热方式：风冷散热或者水冷散热、油冷、自然冷却。

Heat dissipation modes: air cooled or water-cooled, oil-cooled, natural-cooled.

7. 感 量：有感或纯性无感。

Inductance: inductive or non-inductive.

8. 操控模式：本地操作，远程操作，本地/远程一体操作。

Control Modes: local operation, remote operation, local /remote integrated operation.

9. 环境温度：-10-55℃（指负载箱所在位置的环境温度）。

Ambient Temperature: -10-55℃ (refers to the ambient temperature where the load bank is located).

10. 防护等级：IP20-IP67（常见是IP20室内工作型）。

Protection Class: IP20-IP67 (normal, IP20 indoor working).

11. 数据采集：电流，电压，频率，功率，温度等。

Meters: display current, voltage, frequency, power, temperature, etc.

12. 保护功能：过温，过流，过压，风机失效，报警装置等。

Protection device: over-temperature, over-current, over-voltage, fan failure, alarm device, etc).

■ 负载箱/负载柜的引用标准(Load Bank Reference Standard)

序号 NO.	标准 Standard	详情 Spec	备注 Note
功率型电阻常引用标准或规范(Power resistors refer to standards)			
1	GB5732-1982	电子设备用固定电阻器第四部分 功率型 Fixed resistors for use in electronic equipment - Part 4 power type	
2	GB5729-1985	总规范 General specification	
3	GB/T5729-2003	总规范 General specification	
4	GB/T5734-1985	分规范 Sectional specification	
5	JB/T 6319-2010	机械行业标准 电阻器基本技术要求 Machinery industry standard basic technical requirements for resistors	
功率型电阻常引用标准或规范(Power resistors refer to standards)			
1	GB/T 2423.4-2008	电工电子产品环境试验 第2部分实验方法 Environmental test of electrical and electronic products Part 2 experimental methods	
2	GB/T 2423.5-1995	电工电子产品环境试验 第2部分实验方法 Environmental test of electrical and electronic products Part 2 experimental methods	
3	GB 2423.10-2008	电工电子产品环境试验 第2部分实验方法 Environmental test of electrical and electronic products Part 2 experimental methods	
4	GB/T 2900.18-2008	电工术语 低压电器 Sectional specification low voltage electrical apparatus	
5	GB/T5169.11-2006	电工电子产品着火危险试验 Fire hazard test for electrical and electronic products	
6	GB 14048.1-2006	低压开关设备和控制设备 Low voltage switchgear and controlgear	
7	GB150	密封试验 (适用水冷型电阻箱/柜) Sealing test (applicable to water-cooled load bank)	

注：以上引用标准，如有作废，按相应新代替标准执行。

(Note: if the above referenced standards are invalid, the corresponding new substituted standards shall prevail.)

■ 负载箱/负载柜内置负载类型(Load bank configurations)



■ 负载箱检验实验性能参数(Load Bank Performance Charactertics)

项目 Test	试验条件 Conditions of Test	性能参数 Testing Results
容许误差 Tolerance	测试电压 $\leq 3V$,环境温度 $25^{\circ}C$ Testing Voltage $\leq 3V$, Ambient Temperature $25^{\circ}C$	J($\pm 5\%$) - G($\pm 2\%$) - F($\pm 1\%$)
外形尺寸 Profile Dimension	根据技术协议中的图纸进行 According to the drawings in the technical agreement	符合图纸要求 As per drawing requirements
通电调试 Power on for adjusting	根据技术协议中的参数进行 According to the datas in the technical agreement	仪表风机负载正常运转 meters & fans operation normal
绝缘电阻值 Insulation Resistance	试验电压为 $1000VDC \pm 20\%$ Test voltage $1000VDC \pm 20\%$	$100M\Omega 1Min$
对地电压 Voltage to ground	常用 $2KV$ DC 60秒, 超高压依要求 normal $2KV$ DC for 60s, ultra voltage as required	无火花, 无击穿 No spark, no breakdown
密封性实验 Sealing Test	$1-2MPa$, 保压4小时 $1-2MPa$, pressure maintaining for 4H	无渗漏, 无变形 No leakage, no deformation

■ 负载箱/负载柜质量管理 (Load Bank quality control)

在系统的设计、生产与检验流程中，厂方采取以下措施，保证系统质量合格，能满足用户需要。

In the process of system design, production and inspection, the manufacturer takes the following measures to ensure that the system quality is qualified and can meet the needs of users.

1. 质量管量(Quality control)

- 1) 产品的设计与生产完全依据双方约定的正式技术协议进行。
The design and production of the products are carried out in full accordance with the formal technical agreement agreed by both parties.
- 2) 生产前，向用户提供产品外形图，经确认同意后，方可依据图纸生产。
Before production, the outline drawing of the load bank shall be provided to the user, then the production can be carried out according to the drawing after confirmation.
- 3) 在生产过程中，有专门的检验部门对产品所使用的原材料进行严格质量检验。
In the production process, the special inspection department should carry out strict quality inspection on the raw materials used for the load bank.
- 4) 在元件加工、组装、调试过程中进行全程质量追踪，建立产品档案。
Carry out whole process quality tracking in the process of component processing, assembly and commissioning, and establish product archives.
- 5) 保证所有配件均是先进、全新、完整且组合布置合理的，符合国家相关标准。产品内部洁净，结构合理，接口正确，标示清晰。
Ensure that all accessories are advanced, brand-new, complete and reasonably arranged, in line with relevant national standards. The interior of the load bank is clean, the structure is reasonable, the interface is correct and the mark is clear.
- 6) 严格按照图纸和有关标准、规范的要求，对产品进行功能与参数校验，保证最终产品能实现技术协议上约定的全部内容。
Check the functions and parameters of the products in strict accordance with the requirements of drawings and relevant standards and specifications to ensure that the final products can achieve all the contents agreed in the technical agreement.

2. 验收(Acceptance)

双方可通过实际操作对产品进行验收，产品生产完毕后，提前1天通知用户进行出厂前的性能实验，验收合格方可出厂。验收遵守以下事项：

The buyer can accept the products through actual operation. After the production of the unit is completed, the user shall be notified one day in advance to carry out the performance test before the unit leaving the factory. The products can leave the factory only after passing the acceptance. The following items shall be observed during acceptance:

- 1) 出厂验收测试应按照技术协议和双方商定的验收大纲进行，提供中文版《出厂检验报告》、《合格证》。
The factory acceptance test shall be carried out in accordance with the technical agreement and the acceptance outline agreed, by both parties, and the Chinese version of factory inspection report and certificate of conformity shall be provided.
- 2) 指导用户按技术资料 and 图纸安装。
Guide users to install load bank according technical data and drawings.
- 3) 厂方负责解决生产制造中出现的问题。
The manufacturer is responsible for solving the problems in production and manufacturing.

■ 负载箱/负载柜订购流程和内容 (Load Bank purchase process & content:)

- 1) 性能参数：根据需求提出技术方案，作为供用户参考的预案。
Technical scheme of performance parameters: put forward the technical scheme according to the demand as the plan for users' reference.
- 2) 设计：按照技术协议设计构造及相关配件。
Design: design structure and relevant accessories according to the technical agreement.
- 3) 技术协议：双方根据实际情况进行协商，在方案基础上约定最终的技术协议，系统的设计生产将严格按照最终协议进行。
Technical agreement: both parties negotiate according to the actual situation and agree on the final technical agreement on the basis of the scheme. The design and production of the system will be carried out in strict accordance with the final agreement.
- 4) 生产：依据设计图纸进行装配。
Production: assemble according to the design drawings.
- 5) 出厂前检验：依据技术协议与相关标准对设备进行严格调试和检验，不达到标准不放行出厂。
Inspection: strictly debug and inspect the equipment according to the technical agreement and relevant standards. If it does not meet the standards, it will not be released from the factory.

■ 负载箱/负载柜订购流程和内容 (Load Bank purchase process & content)

- 6) 运输：将产品安全运送到用户指定的地点
Transportation: transport the product to the designated place by the user.
- 7) 终身服务：提供终身技术服务，解决用户使用中的问题。
Lifelong service: provide lifelong technical service to solve problems.

■ 负载箱/负载柜降功耗曲线图(Derating Curve)

