

Rack-Mounted Load Bank For Data Center Testing

Rack-mounted dummy load for data center testing has built-in purely resistive load. Power input adopts segmented combination control, can simulate power usage and heat dissipation of server IT equipment in the Data center. Using dummy load for integration testing, to ensure the computer room power supply system, air conditioning fresh-air system, lightning protection grounding system, monitoring system, computer room comprehensive environment, computer room IT micro-environment, and computer room decoration engineering systems to operate effectively and verify it meets the design and operational requirements.

Application

Computer room acceptance :

- Cooling system.
- Report of airflow environment .
- Design index verification.
- Reliability of power distribution load in Computer room.



AC220V/DC270V-8KW-R



AC220V/DC270V 4.5KW—Front



AC220V/DC270V 4.5KW—Rear

Technical Parameters

The load power input uses segmented load steps, according to the performance parameter detection requirements to select load steps. New power consumption components, high power density, no red heat phenomenon, load using energy consumption mode, heat dissipation using forced air cooling.

Rated Voltage	AC220V/AC230V/DC240V/DC270V/DC336V
Rated Power	3KW,5KW,6KW,8KW ; or customer requirement
Load Steps	Like 8KW:100W,200W*2,500W,1KW*5; or customized
Rated Frequency	50HZ/60HZ
Load accuracy	±5%
Control Power	AC220V/DC240V/DC270V/DC336V or customized
Input Mode	2 or 4 Standard IEC power sockets , or customized
Protection Mode	Over-temperature,Over-current,Short-circuit protection,Buzzer and light alarm
Display Mode	Current or Voltage or Power or customized
Cooling Mode	Force-air cooling :Air front inlet and rear outlet
Temperature	Temperature difference between inlet and outlet is 12°C,5°C,20°C , or others
Color	Black
Installation	Hanging hole mounting, screw hole locking or customized
Move mode	Easy to carry with handle
Insulation class	F class
Demension	W(19 inches) * D(600mm or customIzed) *H (standard 4U or customIzed)
Weight	About 13KG
Temperature	-10°C~+50°C
Relative humidity	≤95%
Altitude	≤2500 meters

High Voltage Super Power Load Bank

High voltage super power load bank with the voltage range of 10-35KV and power can reach 1MW-10MW, Mainly used in the detection of AC power sources of power stations.

The load bank power input adopts the load steps, which can accurately detect the output power and loading ability of AC power supplies of various power stations, to meet the needs of different loads. The load outer box is dedicated container with a standard lifting point on the top. Convenient for hoisting and transportation. Container is sprayed with special paint or ships, resistant to salt spray, acid and alkali, and seawater, and the interior of the cabinet is sprayed with high temperature resistant paint. The internal bracket is hot-dip galvanized, and the protection level can reach IP56, which is suitable for testing in various places such as indoor, outdoor, island, and ship.

Load Bank Picture



Technical parameters

Rated Voltage	AC10-35KV
Rated Power	1MW-10MW
Load Steps	Like 1KW,2KW,2KW,5KW.....50KW,100KW,200KW.....; or customized
Rated Frequency	50HZ/60HZ
Load accuracy	±5%
Control Power	AC220V,AC230V,AC415V or customized
Input Mode	Power sockets, Terminal or customized
Protection Mode	Over-temperature, Over-current, Short-circuit protection, Buzzer and light alarm
Display Mode	Current or Voltage or Power or power factor
Cooling Mode	Force-air cooling: Air front inlet and rear outlet, or customized
Temperature	Temperature difference between inlet and outlet is 12°C, 5°C, 20°C, or others
Color	Customized
Installation	Hanging hole mounting, screw hole locking or customized
Move mode	Fork-lift channels and lifting hole
Insulation class	F class
Demension	Customized
Weight	About 1.5~5t
Temperature	-10°C~+50°C
Relative humidity	≤95%
Altitude	≤2500 meters

The RLC load bank meets the requirements of the grid inverter anti-island test, can simulate various resistance, inductance, capacitor AC load. And simulate various working environments and detect actual output power and load capacity of the inverter

Built-in resistive, capacitive and inductive load.

Mode	AC230V-6KW-RLC	AC230V-10KW-RLC	AC400V-30KW-RLC	AC400V-60KW-RLC	AC400V-100KW-RLC	AC400V-200KW-RLC	AC400V-400KW-RLC
Rated Power	6KW	10KW	30KW	60KW	100KW	200KW	400KW
Rated Voltage	AC230V±10%	AC400V±10%/AC380V/AC415V					
Rated Current	1P:37A	1P:61A	1P:61A 3P:184A	1P:122A 3P:367A	1P:204A 3P:612A	1P:408A 3P:1224A	1P:816A 3P:2449A
Power Factor	PF=0.1~1.0						
Min Load Step	100W			1KW			
Display Mode	Real-time Voltage /Current/Power/Frequency/Power factor						
Protection Function	Lower/Over-voltage protection, Over-current protection, Short-circuit protection, Over temperature protection, Buzzer and light alarm, Emergency stop protection.						
Cooling Mode	Force-air cooling.						
Control Mode	1. Local manual control: Control, contactor /Breaker 2. Remote control: manual /PLC						
Dimension	W600*D750*H110mm	W600*D750*H110mm	W800*D800*H1554mm	W600*D1000*H1554mm	W1200*D1200*H2000mm	W900*D900*H2000mm (3 sets)	W1200*D1200*H2000mm (3 sets)

DC Resistive load bank

The DC resistive load bank is mainly used for DC power supply, battery, charging pile, and other DC power supply detection. Can simulate resistive load, and detect the performance of DC power, battery and other DC power supply under different loads.

The power input is uniformly optimized to apply to different loads.

Mode	DC48V-50KW-R	DC100V-50KW-R	DC200V-100KW-R	DC400V-200KW-R	DC800V-400KW-R	DC100V-500KW-R
Rated Power	50KW	50KW	100KW	200KW	400KW	500KW
Rated Voltage	DC48V±10%	DC100V±10%	DC100V±10%	DC100V±10%	DC100V±10%	DC100V±10%
Rated Current	1042A	500A	500A	500A	500A	500A
Power Factor	PF=1.0					
Min Load Step	100W or 1A			1KW or 1A		1KW or 1A
Display Mode	Real-time Voltage /Current/Power/Frequency					
Protection Function	Lower/Over-voltage protection, Over-current protection, Short-circuit protection, Over temperature protection, Buzzer and light alarm, Emergency stop protection.					
Cooling Mode	Force-air cooling					
Control Mode	1. Local manual control: Control, contactor /Breaker 2. Remote control: manual /PLC					
Dimension	W600*D750*H110mm	W600*D750*H110mm	W600*D750*H332mm	W800*D900*H750mm	W1000*D1200*H200mm	W1200*D1500*H2000mm

AC Load Bank

The AC load bank is used for detecting the output power and load capacity of generator set, power supply of high power UPS and inverter. Unified segmented power input, energy-consuming working mode, forced air-cooling radiating, greatly guarantees the reliability of constant power discharge.

Adopt new power consumption element,are designed and produced by independent intellectual property,with high power density,no red heat phenomenon, automatically over-heating protection.Not overheating and burning even the fan does not turn, and the safety span life is long.

Whole machine adopts modular design, and the operation is simple and easy to maintain; the voltage,current and other parameters can be tested according to customer requirements,provide scientific detecting methods for high-power AC power equipment.

Resistive load bank(R)

The resistive load bank is built-in resistor load,to test UPS,generator sets invert, and other power supply.

Mode	AC230V-6KW-R	AC400V-30KW-R	AC400V-60KW-R	AC400V-100KW-R	AC400V-200KW-R	AC400V-400KW-R	AC400V-500KW-R
Rated Power	6KW	30KW	60KW	100KW	200KW	400KW	500KW
Rated Voltage	AC230V±10%	AC400V±10%/AC380V/AC415V					
Rated Current	1P:27.2A	1P:43A 3P:130A	1P:87A 3P:261A	1P:145A 3P:435A	1P:290A 3P:870A	1P:580A 3P:1739A	1P:725A 3P:2174A
Power Factor	PF=1.0						
Min Load Step	100W			1KW		10KW	
Display Mode	Real-time Voltage /Current/Power/Frequency/Power factor						
Protection Function	Lower/Over-voltage protection,Over-current protection,Short-circuit protection,Over temperature protection, Buzzer and light alarm,Emergency stop protection.						
Cooling Mode	Force-air cooling.						
Control Mode	1.Local manual control:Control, contactor /Breaker 2.Remote control>manual /PLC						
Dimention	W486*D600*H210mm	W600*D750*H110mm	W600*D750*H1332mm	W600*D750*H1332mm	W800*D900*H1750mm	W1000*D1200*H200mm	W1200*D1500*H2000mm

RCD load bank

The RCD load bank is non-linear dummy load,Rectifier Load ,to test UPS,generator sets, and other power supply.Can know the real working ability with non-linear load such as a computer or network equipment.

Mode	AC230V-10KW-RCD	AC400V-30KW-RCD	AC400V-60KW-RCD	AC400V-100KW-RCD	AC400V-250KW-RCD	AC400V-400KW-RCD
Rated Power	10KW	30KW	60KW	100KW	250KW	400KW
Rated Voltage	AC230V±10%	AC400V±10%/AC380V/AC415V				
Rated Current	1P:98A	1P:98A 3P:294A	1P:196A 3P:588A	1P:326A 3P:978A	1P:815A 3P:2445A	1P:1304A 3P:3912A
Power Factor	PF=0.6~1.0					
Min Load Step	100W			1KW		
Display Mode	Real-time Voltage /Current/Power/Frequency/Power factor					
Protection Function	Lower/Over-voltage protection,Over-current protection,Short-circuit protection,Over temperature protection, Buzzer and light alarm,Emergency stop protection.					
Cooling Mode	Force-air cooling.					
Control Mode	1.Local manual control:Control, contactor /Breaker 2.Remote control>manual /PLC					
Dimention	W600*D750*H110mm	W600*D750*H1332mm	W600*D1000*H1554mm	W800*D1400*H1850mm	W800*D1500*H150mm (3 sets)	W800*D1500*H1900mm (3 sets)