4KW-AC220V

Rack-Mounted AC Load Bank

Our 4KW-AC220V rack-mounted load bank is a high-power-density test load designed specifically for standard 19-inch rack environments in IDC data centers.

Product Overview

Our 4KW/AC220V rack-mounted load bank is designed for standard 19-inch racks and is used as a simulated load in AC220V systems. It tests precision air conditioning, monitoring and power-supply systems in equipment rooms under load.

The load resistors use nickel-chromium alloy, which has very low temperature drift, a high melting point and corrosion resistance. This provides stable load power and meets testing requirements. The material is widely used domestically and internationally for loads and heating.

All internal wiring uses high-temperature silicone cable rated above 120℃. It does not burn at high temperatures. The overtemperature protection threshold is 70℃.

The load bank has comprehensive protection. Its built-in DC contactor is interlocked with the fan switch, so the load cannot be applied unless the fan is on. Excessive temperature disconnects load power and triggers an audible and visual alarm.



Main Functions

- Test load capacity and wiring from distribution equipment and diesel generators through UPS units, rack cabinets and PDUs.
- Check precision air-conditioning operation as aisle or equipment-room temperature rises.
- Test UPS transfer capability and power-supply duration under load.
- Verify that a diesel generator starts and supplies power under load.
- Support other simulated-load tests.

Dimensions

W Width (mm)	H Height (mm)	D Depth (mm)
430	177	550

Power Cord / Connector Options

Various specifications for use in different countries and industries.

01 Chinese-standard cable

3*1.5 mm²



Wire size	3×1.5 mm²
Length	Customizable (standard 1.5 m)
Plug type	Chinese-standard 3-pin
Region	Mainland China
Devices	General equipment; rack equipment

02 C13 C14 European cable

3*1.5 mm²



Wire size	3×1.5 mm²
Length	Customizable (standard 1.5 m)
Plug type	C14 male
Socket type	C13 female
Region	European / universal
Devices	IT equipment, servers, monitors, etc.

03 C13 C20 cable

3*1.5 mm²



Wire size	3×1.5 mm²
Length	Customizable (standard 1.5 m)
Plug type	C20 male
Socket type	C13 female
Region	Universal
Devices	High-power equipment; rack equipment

04 C19 C20 cable

3*1.5 mm²



Wire size	3×1.5 mm²
Length	Customizable (standard 1.5 m)
Plug type	C20 male
Socket type	C19 female
Region	Universal
Devices	Servers; industrial equipment; high-power applications

05 63A industrial connector

(customized on request)



Current	63 A
Voltage	380-415 V (customizable)
Length	Customizable
Use	Three-phase high-power equipment; industrial testing; data centers, etc.

06 Single-phase 32A connector

(customized on request)

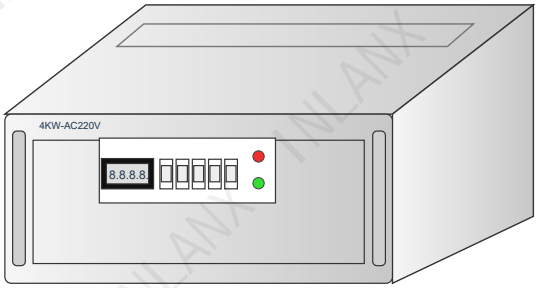


Current	32 A
Voltage	200-250 V (customizable)
Length	Customizable
Use	Single-phase high-power equipment; industrial testing; rack equipment, etc.

Technical Specifications

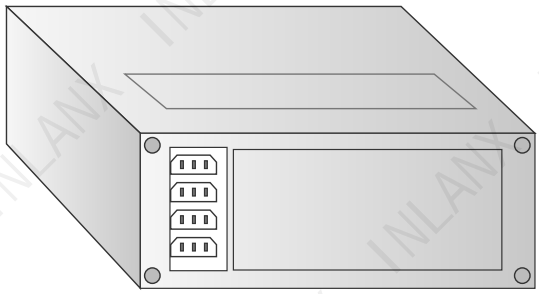
Rated voltage	AC220V
Rated power	4KW
Power stages AC220V (dual circuit)	500W,1.5KW,1KW, 1KW
Power factor	1
Display	Current
Load accuracy	≤5%
Matching power cord	Chinese standard C14 socket
Enclosure dimensions	W*H*D=430*177*550 mm
Operating ambient temperature	Below 70℃ (protection set point)
Cooling	Forced air cooling (front intake, rear exhaust)

Front Panel



Ammeter · Fan/load switches
Audible/visual alarm · Operation indicator

Rear Panel



Circuit B · Circuit A / fan