80KW-AC380V

80KW AC Resistive Load Bank

Our high-power AC load bank serves as a simulated load for testing the load-carrying capacity and other electrical performance of generators or UPS systems.

The resistors use nickel-chromium alloy with very low temperature drift, a high melting point and corrosion resistance. This material provides stable load power to meet test requirements and is widely used for load and heating applications.

Internal wiring uses high-temperature silicone cables rated above 120°C and resistant to burning at high temperatures. The protection temperature is set to 70°C. A fan interlock prevents loading before the fan starts. Excessive temperature disconnects load power and activates audible and visual alarms.

The load bank provides comprehensive protection and contains multiple resistor modules. Different load powers can be selected for different test objects to evaluate their electrical operating performance.ss

Main Functions

• Test load capacity and wiring reliability throughout the electrical chain, from substation and distribution equipment and diesel generators to UPS systems, row cabinets and PDUs.

• Evaluate precision air-conditioning operation as temperature rises in an aisle or server room.

• Test UPS switching under load and supply duration.

• Test whether a diesel generator can start and supply power normally under load.

• Other simulated-load test applications.



Enclosure Dimensions

W	H	D
650	1300	850

W*H*D=650*1300*850

标配 C13-C14 电源线；其他接口按现场 PDU 标准确认。

电源线 / 连接器可选类型

多种规格可选，满足不同国家和行业的使用需求

01 国标线

3*1.5 mm²



线规	3×1.5 mm²
线长	线长可定制（标配1.5 m）
插头类型	国标三插
适用地区	中国大陆
适用设备	常规设备、机柜设备

02 C13 C14 欧标线

3*1.5 mm²



线规	3×1.5 mm²
线长	线长可定制（标配1.5 m）
插头类型	C14 公头
插座类型	C13 母座
适用地区	欧标 / 通用
适用设备	IT设备、服务器显示器等

03 C13 C20 线

3*1.5 mm²



线规	3×1.5 mm²
线长	线长可定制（标配1.5 m）
插头类型	C20 公头
插座类型	C13 母座
适用地区	通用
适用设备	大功率设备、机柜设备

04 C19 C20 线

3*1.5 mm²



线规	3×1.5 mm²
线长	线长可定制（标配1.5 m）
插头类型	C20 公头
插座类型	C19 母座
适用地区	通用
适用设备	服务器、工业设备高功率应用

05 63A 工业连接器

（按需定制）



电流	63 A
电压	380-415 V（可定制）
线长	线长可定制
适用场景	三相大功率设备 工业测试、数据中心等

06 单相32A工业连接器

（按需定制）



电流	32 A
电压	200-250 V（可定制）
线长	线长可定制
适用场景	单相大功率设备 工业测试、机柜设备等

Technical Parameters

Item	Specification
Rated Voltage	AC380V
Rated Power	80KW
Load Stages (Three-Phase AC)	1KW,2KW,2KW,5KW,10KW,15KW,15KW,30KW
Power Factor	1
Load Accuracy	≤5%
Fan Power Supply	AC220V
Load Connection	Quick connectors
Enclosure Dimensions	W*H*D=650*1300*850
Operating Ambient Temperature	Below 70°C (set protection temperature)
Cooling	Forced air cooling (front intake, rear exhaust)

Adjustment: three-phase adjustment

Loading Procedure

1. Connect the Test Supply

Insert the test-supply connectors in phase sequence and turn clockwise to lock. Plug the control power cable into the control power socket.

2. Start the Fan

Loads cannot be applied until the fan has started.

3. Load Testing

Select and combine 1KW,2KW,2KW,5KW,10KW,15KW,15KW,30KW stages. Maintain balanced loading across the three phases.

4. Unload and Stop the Fan

Recommended: stop the fan 3 minutes after disconnecting the load so the resistors cool fully. Before removing cables, confirm the source side is de-energized. Disconnect the source side first, then the load side.

Precautions

Before Use

1. Normal operation is permitted within 5% above rated voltage. At voltages within 10% above rated voltage, operation must not exceed 3 minutes; otherwise equipment damage may occur.

2. Keep air inlets and outlets clear of obstructions.

3. The load air outlet is very hot. Keep flammable and explosive materials away.

During Testing

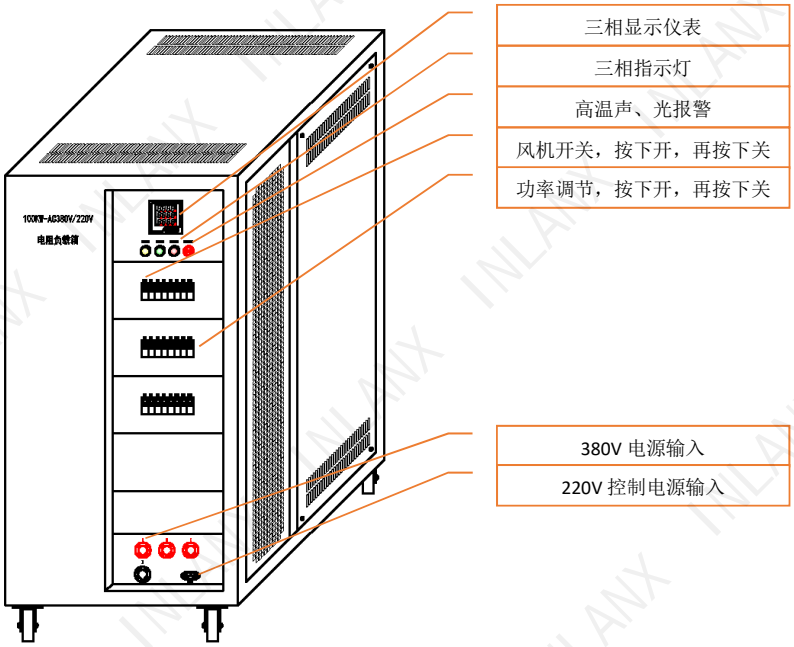
1. The fan and load are interlocked for safety. Load switching is disabled before the fan starts.

2. Excessive load-bank temperature activates audible and visual alarms and automatically disconnects the load.

3. The entire test must be continuously supervised to prevent accidents.

4. Disconnect cables at the power-source end first, then at the load end.

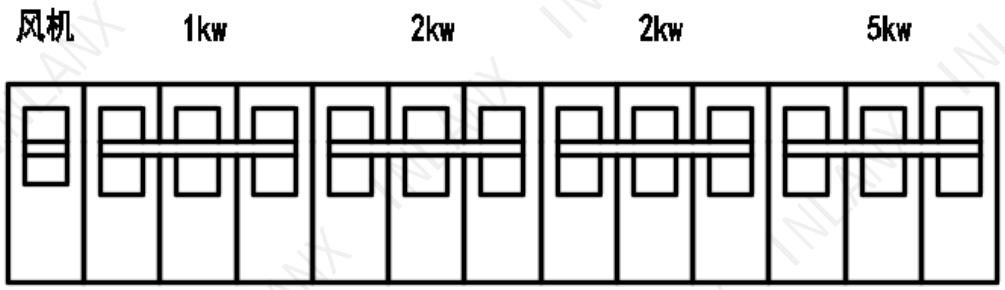
Product Appearance and Interfaces



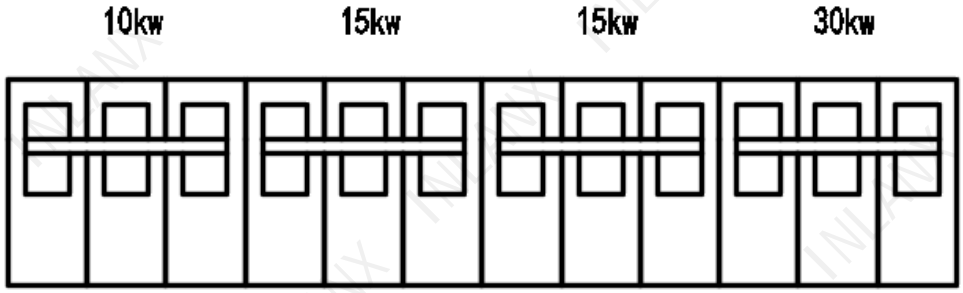
Interfaces and Controls

1. Three-phase display meter
2. Three-phase indicator lamps
3. High-temperature audible and visual alarm
4. Fan switch: press to turn on; press again to turn off
5. Power adjustment: press to turn on; press again to turn off
6. 380V power input
7. 220V control power input

Three-Phase Load Stage Panel



Fan / 1KW / 2KW / 2KW / 5KW



10KW / 15KW / 15KW / 30KW