4U6KW-AC220V-R

6KW AC220V General-Purpose Rack Load Bank

General-purpose AC rack load bank (4U6KW-AC220V -R)

The INLANX 4U6KW-AC220V-R is a high-power-density AC test load designed for 19-inch standard racks in IDC data centers.

Features

- Rated voltage: AC220V
- Rated power: 6KW
- Power stages: 500W,1.5KW, 1KW,3KW
- Load accuracy: ≤5%
- Fan/load interlock prevents switching without the fan
- Excessive temperature triggers audible/visual alarms and automatic load disconnection



Precautions

Before Use

1. Operation is permitted at up to 5% above rated voltage. At up to 10% above rated voltage, operation must not exceed 5 minutes; otherwise the equipment may be damaged.
2. Keep the air inlet and outlet unobstructed.
3. The load air outlet is very hot. Keep flammable and explosive materials away.

During Testing

1. For safety, the fan and load are interlocked. Load switching is disabled unless the fan is started.
2. Excessive temperature activates audible/visual alarms and automatically disconnects the load.
3. A person must supervise the entire test to prevent accidents.
4. Connect load wiring only after confirming that the PDU is de-energized. If the PDU cannot be de-energized, connect the PDU side first, then the load side. Disconnect the load side first, then the PDU side.

Dimensions

W	H	D
430	177	550

W*H*D=430*177*550

Power Cables / Connector Options

Options for different countries and industry applications

01 China-standard Cable

3×1.5 mm²



Gauge	3×1.5 mm²
Length	Custom; standard 1.5 m
Plug	China 3-pin
Region	Mainland China
Equipment	General and rack equipment

02 C13-C14 Cable

3×1.5 mm²



Gauge	3×1.5 mm²
Length	Custom; standard 1.5 m
Plug	C14 male
Socket	C13 female
Region	Europe / universal
Equipment	IT, servers, monitors

03 C13-C20 Cable

3×1.5 mm²



Gauge	3×1.5 mm²
Length	Custom; standard 1.5 m
Plug	C20 male
Socket	C13 female
Region	Universal
Equipment	High-power and rack equipment

04 C19-C20 Cable

3×1.5 mm²



Gauge	3×1.5 mm²
Length	Custom; standard 1.5 m
Plug	C20 male
Socket	C19 female
Region	Universal
Equipment	Servers, industrial equipment, high-power applications

05 63A Industrial Connector

Custom configuration



Current	63 A
Voltage	380-415 V; custom
Length	Custom
Use	Three-phase high-power equipment, industrial testing, data centers

06 1-phase 32A Connector

Custom configuration



Current	32 A
Voltage	200-250 V; custom
Length	Custom
Use	Single-phase high-power equipment, industrial testing, rack equipment

Technical Parameters

Item	Specification
Rated Voltage	AC220V
Rated Power	6KW
Power Stages	500W,1.5KW, 1KW,3KW
Power Factor	1
Load Accuracy	≤5%
Fan Power	AC220V
Load Connection	4 C14 sockets in parallel at the rear of the enclosure.
Power Cable	C13 + China-standard three-flat-pin plug (standard)
Enclosure Dimensions	W*H*D=430*177*550
Operating Ambient Temperature	Below 70°C (set protection temperature)
Cooling	Forced air cooling (front intake, rear exhaust)

Loading Procedure

Connect Test Power

Connect the PDU side first, then the load side.

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Start the Fan

The load cannot be applied until the fan is started.

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Load Test

Select 500W,1KW,1.5KW,3KW load stages.

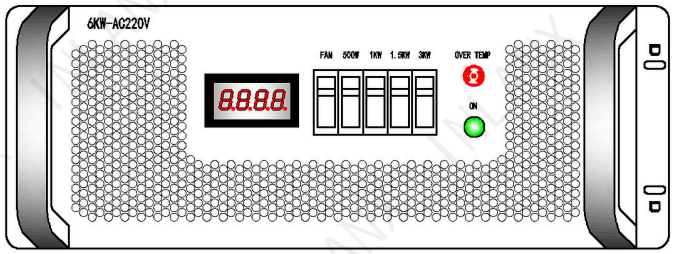
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Unload and Stop the Fan

Recommended: wait 3 minutes after disconnecting the load before switching off fan power, allowing the resistors to cool fully. Disconnect the load side first, then the PDU side.

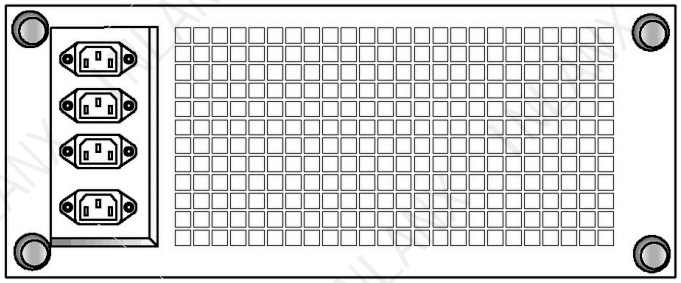
Panel and Rear Connections

Front View



1 Current meter
2 Fan switch
3 Load switches
4 Audible/visual alarm, indicator

Rear Connections



Upper three sockets in parallel
Fan power: fourth (bottom) socket