15KW-AC240V-R

15kW AC240V AC Resistive Load Bank

Our 15KW-AC240V-R rack load bank is a high-power-density rack-mounted test load developed specifically for standard 19-inch cabinets in IDC data centers.

The INLANX-15KW-AC240V-R AC resistive load bank is a professional test device designed for power supply testing. It uses reliable resistor loading and manual staged control to provide stable AC power loading. It is suitable for server power supplies, UPS systems, power modules, telecommunications power supplies, and R&D and production testing. Its compact construction, simple operation and reliable safety meet the needs of laboratories, production lines and on-site testing.

Design Features

• Finned resistors are the primary heat-generating elements, providing a large heat dissipation area and good thermal stability.

• Pure resistive loading provides stable power for AC power supply performance verification and burn-in testing.

• Staged loading starts at 1kW, with flexible combinations to meet test requirements.

• DC24V fans provide forced cooling to improve reliability during continuous operation.

• Fan interlock protection prevents loading without airflow.

• Short-circuit, over-current and over-temperature protection improve operating safety.

• Standard enclosure construction facilitates handling, installation and maintenance.



Operating Principle

Internal finned alloy resistors produce the load power, and the operating fans quickly remove heat from the enclosure. Front-panel switches control the load stages to achieve different power combinations. During operation, the protection system continuously monitors operating conditions and activates protection when an abnormal condition occurs.

Dimensions

W	H	D
440	265	650

W440 × H265 × D650 mm

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 Specifications

Item	Specification
Model	INLANX-15KW-AC240V-R
Product Type	AC resistive load bank
Rated Voltage	AC 240V (single-phase)
Rated Power	15kW
Load Stages	1kW + 2kW + 2kW (Phase A) 1kW + 2kW + 2kW (Phase B) 1kW + 2kW + 2kW (Phase C)
Resistor Type	Finned alloy resistor
Cooling	Air cooling
Fan Power	DC24V
Airflow	2400 m³/h
Rear Connections	9 power sockets
Operation	Manual operation
Electrical Data Acquisition	No electrical data acquisition
Dimensions	W440 × H265 × D650 mm
Weight	Approx. 20kg
Protection	Fan interlock, short-circuit, over-current and over-temperature protection

Safety Protection

Fan interlock: loading is prohibited until the fan starts, preventing overheating.

Short-circuit protection: protects the load equipment and power supply system during an abnormal short circuit.

Over-current protection: limits abnormal current input and protects internal electrical components.

Over-temperature protection: the internal operating protection temperature is ≤70°C, ensuring safe long-term operation.

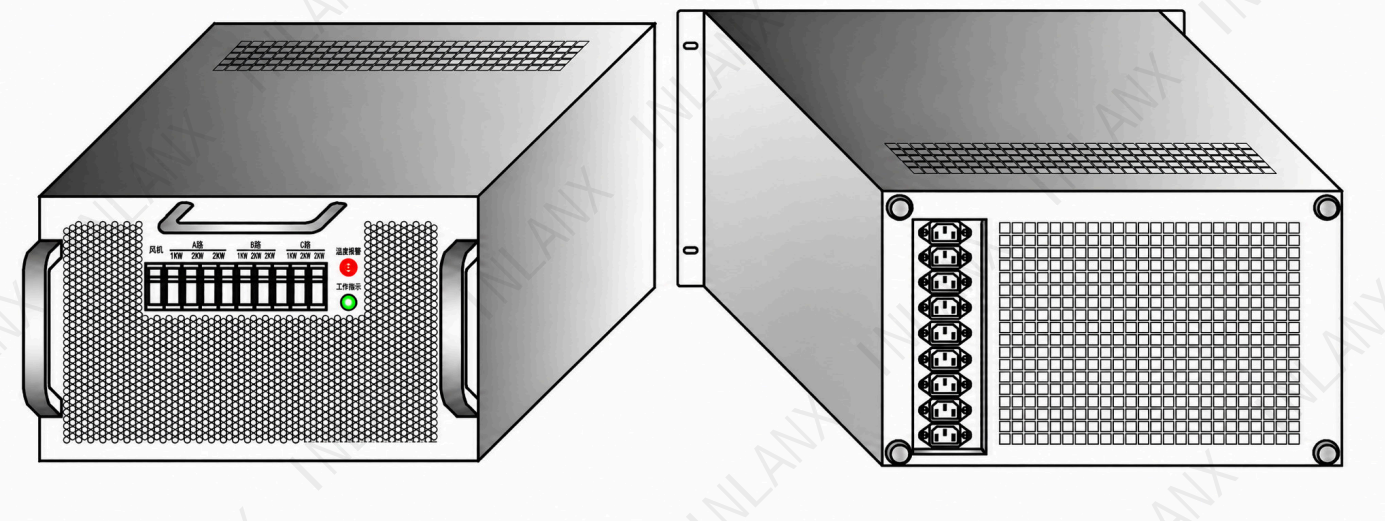
Maintenance Recommendations

Keep the air inlet and outlet unobstructed, and regularly check fan operation and the reliability of power connections. During prolonged continuous operation, schedule test duration according to the local ambient temperature to ensure stable equipment operation.

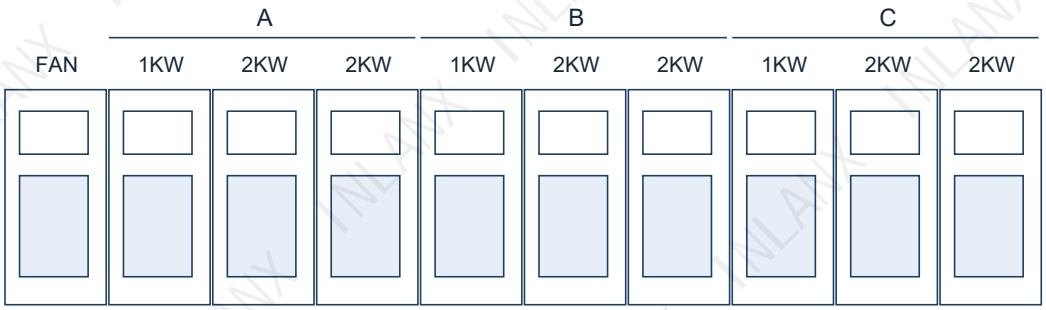
Product Schematics

Front View

Rear Connections (9 Power Sockets)



Load Stage Control Panel



Temperature Alarm

Working Indicator