3U3KW-AC220V-R

AC Rack-Mounted Load Bank (Rack Load)

3U3KW-AC220V-R Product Description

Our 3U3KW-AC220V-R rack-mounted load bank is a high-power-density rack-mounted test load designed specifically for standard 19-inch rack environments in IDC data centers.

Technical Requirements

- Rated voltage: AC220V
- Rated power: 3KW
- Power stages: 500W,1KW, 1.5KW
- Power factor: 1
- Load accuracy: ≤5%
- Fan supply: AC220V
- Display: current.
- Protection: overtemperature.



Connections & Operation

Load connection: 2 C14 inlets at the rear of the enclosure, connected in parallel.

Supplied power cord: C13 + Chinese-standard three-flat-pin plug (standard).

Enclosure dimensions: W*H*D=430*133*450

Operating ambient temperature: below 70°C (set protection temperature).

Cooling: forced air cooling using 2 axial fans (front intake, rear exhaust).

Loading method: manual loading from the control panel.

Dimensions

W mm	H mm	D mm
430	133	450

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.

Main Materials

No.	Material	Description	Remarks
1	Enclosure	W*H*D=430*133*450 Bent and welded steel sheet; electrostatic powder-coated surface.	Custom
2	Resistor	Nickel-chromium alloy wire; stainless steel encapsulation and stainless steel cooling fins.	Features: long life and low temperature drift.
3	Circuit breaker	MCB	INLANX
4	Load switches	Manual loading from the control panel	
5	Cable	High-temperature-resistant silicone cable	Shanghai
6	Meter	Ammeter	
7	Other electrical components	Renowned domestic products	

Loading Procedure

Connect the test power supply
Connect the PDU side first, then the load side.

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Start the fan
The load cannot be switched on unless the fan is running.

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Load test
Select 500W,1KW,1.5KW load stages.

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Unload and turn off the fan
Recommendation: wait 3 minutes after disconnecting the load before turning off the fan supply, allowing the resistors to cool fully. Disconnect the load-side cable first, then the PDU side.

Product Structure References



