# 6U16KW-AC220V-R

Rack-Mounted AC Resistive Load Bank

The 6U16KW-AC220V-R rack load bank is designed for IDC data centers and standard 19-inch racks.

## Product Overview

For AC220V / AC240V systems and simulated loads up to 16KW; supports precision air conditioning, monitoring, distribution, UPS, generators, racks and PDUs.

Eight rear C14 inputs form four independent groups; each socket is rated 10A. Power cords are supplied according to the contract.

Alloy resistors provide stable power. Internal silicone wiring withstands above 120℃; the enclosure uses steel sheet with electrostatic coating.




## Main Functions

- Check the load capacity and wiring of AC distribution equipment, generators, UPS, racks and PDUs.
- Simulate heat dissipation and verify precision air conditioning.
- Test UPS battery carrying capability and generator start/load operation.

## Protection & Use

The fan must run before loading. Overtemperature triggers audible/visual alarm and disconnects the load. Reset only after power-off.

## Dimensions

| Width W mm | Height H mm | Depth D mm |
|---|---|---|
| 430 | 266 | 550 |

Eight C14 inputs in four groups. Both sockets of each group must connect to the same phase; A branch must be powered. Cord type and quantity per contract.

## 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 / AC240V |
| Rated power / frequency | 16KW; 50Hz / 60Hz |
| Power stages | 500W, 500W, 1KW, 2KW, 4KW, 4KW, 4KW |
| Power factor / resistance tolerance | 1; ≤5% |
| Control supply | AC220V |
| Load inputs | Eight rear C14 sockets in four A/B/C/D groups; 10A each |
| Wiring requirements | Connect both sockets of each group to the same phase; A branch must be powered |
| Supplied power cords | As specified in the contract |

| | |
|---|---|
| Environment / temperature limit | Indoor; below 70℃ (protection setpoint) |
| Protection / interlock | Short-circuit protection; overtemperature alarm and unload; fan interlock; manual reset after power-off |
| Cooling / airflow | Forced air, front intake/rear exhaust; 2000 m³/h |
| Fan information | DC24V, 20060 |
| Resistor / internal wiring | Alloy resistor; silicone cable rated above 120℃ |
| Enclosure size | W×H×D = 430×266×550 mm; formed/welded steel, electrostatic coating |
| Weight | 15KG |

## Original Structure Drawing




