AC400V-20kW Rack Mount Load Bank

Technical catalogue

1 Foreword

（1） With the progress of society, the application of uninterruptible power supplies is becoming more and more widespread, such as data centers, network rooms, banks, industry, communications, military, aerospace, marine, transportation, scientific research institutes and other fields. 20kW Rack Mount Load Bank is used to simulate the actual heating of the server room in the server room to detect the precision air conditioning cooling effect. The load stability is good, the power accuracy is high, the product availability is strong, and it is suitable for the test of 400AC power load. The Rack Mount Load Bank is based on the actual rack. It is made in size and can be adjusted in multiple gears, which is suitable for the test of temperature rise and precision air conditioning in the equipment room. Professional design, safe, reliable, small size can simulate the on-site server load characteristics, tailor-made.

（2） The diagram in the agreement is only for reference, specific please in kind prevail.

2 Supply List

The following chart shows the equipment and accessories that will be delivered.

Equipment Components	Quantity	Remarks
AC400V-20kW Rack Mount Load Bank	1	Alloy resistors
Operation Instruction	1 copy	
Certificate	1 copy	
Warranty Card	1 copy	
Packing List	1 copy	
Receiving Report	1 copy	
Testing Report	1 copy	

3 Technical Parameters

System Parameter	
Rating voltage/frequency	400VAC 3phase 4wire /50Hz
Rated Load Power	20kW@400VAC, the power will change to Ohm' Law when voltage lower than 400VAC
Load Steps	Total 8 load steps: 1kW,1kW,1kW,1kW,4kW,4kW,4kW,4kW
Interface Explanation	1. The rear panel of the chassis: input interface use connector bar, testing cable end use copper lugs 3, The load adopts the manual control mode, is equipped with 6pcs miniature circuit breaker, 1 used for fan control, the other 5 used for load

	steps control
Power Factor	1
Accuracy of full load	±3%
Accuracy of each step	±5%
Insulation Grade	Grade F
Duty Cycle	Continuous
Wiring Mode	Connector bar
Cooling	Forced air cooling, air intake in front and exhaust in back
Protection Grade	IP20
Case Color	Black
Enclosure Dimension	10U, around 431mmx444.5mmx500mm(W*D*H) 431mm means dimension don't including hangers
Weight	About 32kgs
Working Environment Parameter	
Ambient Temperature	-10℃～+40℃
Relative Humidity	≤95%
Altitude	≤1500 meters
Atmospheric Pressure	86～106kPa
Brands of Main Components	
Step Button	Chint
Contactor	Chint
Resistor	Kaixiang

4 Main Functions

（**1**）Can load any power within the rated value, simulate the actual heating of the server room, detect the cooling effect of precision air conditioners, the load capacity of the power supply, and the line reliability, etc.

（**2**）Control Mode: The load bank is with 8 load steps switches, can control loading/unloading by load steps switch.

（**3**）Fan Power Supply: Fan install near air outlet. Connect power supply first, turn on fan switch, then load by power switch.

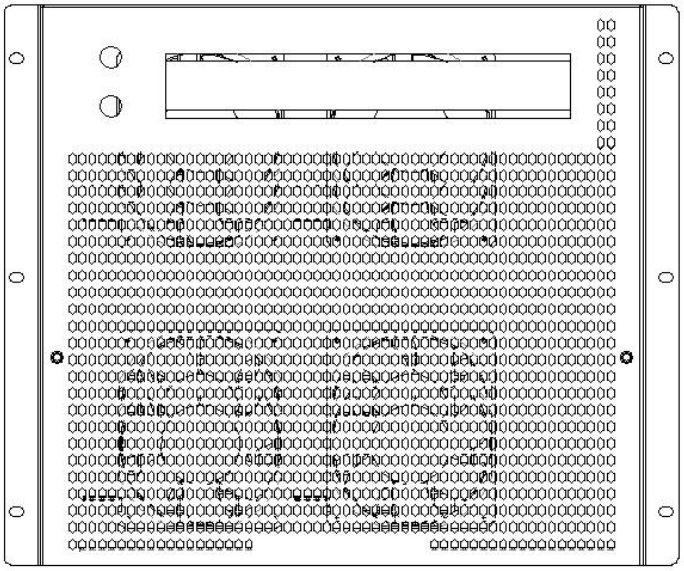
（**4**）Temperature Protection: There will be sound and light alarm when the load bank temperature exceeds the safety threshold value（85℃）, and cut off the load.

（**5**）Load bank Cable: The internal cable adopts multi core flame retardant flexible cord, and with glass fiber casing protection

5 Operation Caution

The load bank is with 8 load step switches. First start fan switch, can load/unload through 8 load steps switches combination, Max power is 20kW. Please make sure fan start before loading. If overheat alarm, please turn off the power switch and then check the equipment problem.

6. Outline Diagram(load bank)




AC400V-20KW Rack Mount Load Bank
Fault
Power
Hebei Kelilang Electrical Technology Co., Ltd
Stop

Photos for reference