



Picture For Reference Only

Why need load bank testing

It is really critical to ensure that your standby power supply system say UPS(uninterrupted power supply), battery bank, generator, transformers, inverter etc which especially located in harsh, dusty or corrosive environment working in good condition, when you need them most, if switched to be loaded when the main power supply in maintenance procedure or stop abnormally.

Such power supply systems could fail without proper preventative maintenance. JUNXY provides a whole range of custom preventative maintenance products solutions for your UPS systems, generators and many more to ensure constant uptime for your power systems and make you

prepared for anything. Downtime could also be reduced by regular maintenance and thorough inspections which are the key to power supply systems maintenance.

JUNXY AC load banks could help highlight a large range of faults on the power supply systems it test. The first goal achieved when testing with JUNXY AC load bank is to ensure your power supply system is reliable or not by validating the power systems' outputs to its technical specifications. The underlying question that JUNXY series AC load bank could answer you is--"how is my power supply systems constant uptime(technical performance) ?" The load bank also tests that the power supply system is not faulty, no faults in construction and components reliable, that the aging of the power supply system is in line with expectations and that there are no pending breakdowns or early signs of wear and tear.

JUNXY series AC load bank testing offers you whole solutions of predictive failure analysis for UPS(uninterrupted power supply), generator, transformers, PV system, inverter etc, to validate the condition and output of such power systems comprehensively. Integrated AC & DC load bank could be made in one unit or separately with different load voltages as per your need for different applications. Our solutions includes (click to view more):

JUNXY-AC208V-100KW-R Resistive AC Load Bank

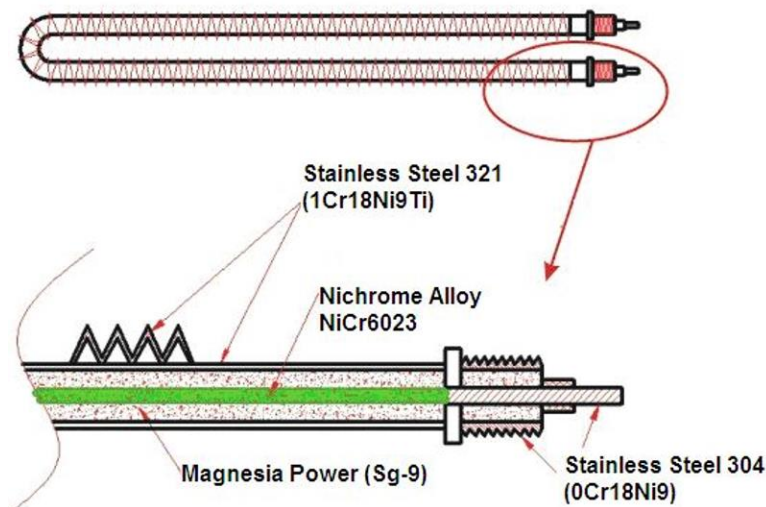
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- RCD AC Load Bank(RCD)
- Pure Resistive AC Load Bank(R)
- Rack Mounted AC/DC Load Bank
- Resistive and Inductive AC Load Bank(RL)
- Resistive, Inductive and Capacitive AC Load Bank(RLC)

JUNXY load bank resistor

Highly reliable and durable new alloy resistor is used for the JUNXY's AC & DC load bank. It is thermal shrinkable and seal installed in the stainless steel pipe, whose surface with insulated heat sink. The resistor is moisture-proof, anti-corrosion, good heat dissipation, high insulation resistance, safe and reliable.

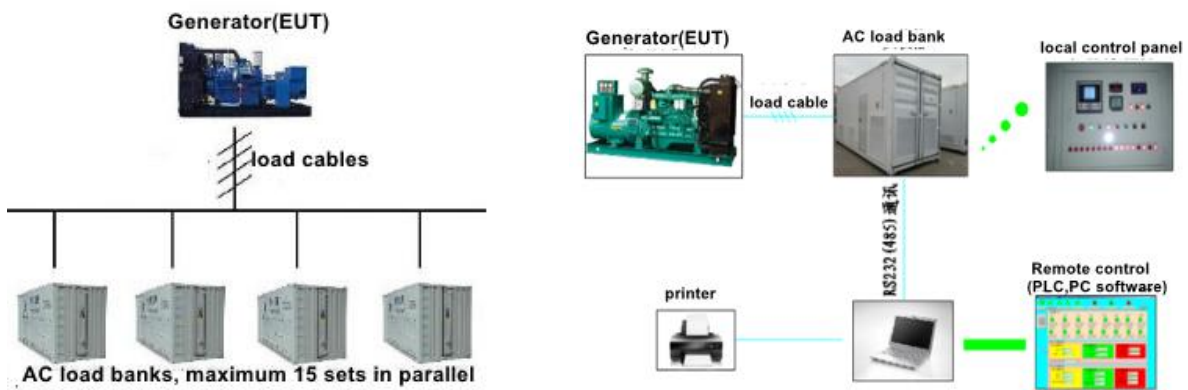
- (1) Resistor material heat-resisting (max at 1300°C), performance stable, low temperature drift ($5 \times 10^{-5}/^{\circ}\text{C}$) nickel-cadmium metal alloy (NiCr6023), advanced resistor technology.
- (2) Tube is extensibility and antioxidant SS321 (1Cr18Ni9Ti), fill material is crystal magnesia powder(Sg-9), magnesia density at $3.0\text{g}/\text{cm}^3 \pm 0.2$, screw and fixed pillar are SS304 (0Cr18Ni9) .
- (3) Cooling fin height is $7\text{mm} \pm 2$, thickness is $0.4\text{mm} \pm 0.2$ SS321 material, cooling fin interval $\leq 3\text{mm} \pm 0.2$.



- (4) Single resistor voltage at DC3000V or AC1500V 50Hz, 1 minute will not be breakdown at 50Hz. Series resistors, withstand voltage will reach 20kV.
- (5) At normal condition, cooling fin average temperature $\leq 300^{\circ}\text{C}$, maximum at 320°C , 5 times margin range to maximum 1300°C , keep the resistor continue work.
- (6) The resistor reach at 300°C to 400°C , temperature drift $\leq \pm 2\%$, resistive value will not much fluctuation under high temperature condition.
- (7) Precision $\leq \pm 3\%$.
- (8) Air outlet $\leq 80^{\circ}\text{C}$ (1M).

JUNXY load bank control modes(remote control optional)



Two control modes available for JUNXY AC load banks: The local panel control mode and the remote control mode by PLC through PC software. Local control mode will be locked once load bank is switched to remote control mode. By applying the PLC, we could make load bank an intelligent test system, load power curve could be preset through PC software and all electrical parameters of EUT(equipment under test) including current, voltage, apparent power, active power, reactive power, power factor, frequency and warning info could be achieved automatically by the PC software and displayed by load bank digital meter. Up to 15 load banks at most could be parallel controlled by PC software which generating the test tables, curves and standard test report.







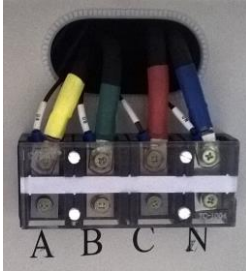







Technical Specifications	
Model	JUNXY-AC208V-100KW-R Resistive AC Load Bank
Load Element	Alloy resistors
Load Voltage	AC208V 3 phase 4 wire
Load Power	100KW for AC208V 3 Phase 4 Wire
Load Steps	12 Load Steps (three phase controlled): 100W/200W/200W/500W/1KW/2KW/2KW/4KW/10KW/20KW/20KW /40KW
Power Factor	PF=1
Load Accuracy	±5%
Digital Meter	Voltage, Current, Power, Frequency and etc.
Power Supply	120V(±10%) 50HZ, single phase

Control Mode	Manual control by circuit breakers and push button
Wire Connections	Internal terminal for wire connections (wires in/out down cabinet)
Insulation Class	F
Protection Level	IP20(indoor use)
Fan Noise	75dB
Cooling Mode	Force-air cooling
Work Mode	Continuous work
Protections	Overheating/buzzer alarm, short circuit protection, overheating/over current & voltage protection, emergency stop button
Ambient Temperature	-10°C~+50°C
Dimension	650*1000*1640mm
Weight	180KG
Mobility	Four wheels, lifting rings in chassis top
Humidity	≤95%
Altitude	≤2500 meters

Load Bank Control Panel Explanation

Component Picture	Name	Function
	EPO	Emergency stop button (Press to stop, rotate to release)
	Power	Fan power with built in light indicator

	<p>Meter</p>	<p>Digital meter displaying the voltage, current, frequency, active power, reactive power, power factor and etc.</p> <p>Press LEFT  or RIGHT  keys to view corresponding data.</p>
<p>TL</p> 	<p>TL</p>	<p>Over temperature(85°C) buzzer alarm</p>
<p>LC</p> 	<p>LC</p>	<p>Load steps control switch with built in light indicator</p>
	<p>Load Steps: Mini Circuit Breakers</p>	<p>Push on/off the circuit breakers to adjust the load power</p>
	<p>Load Cables Connection Terminals A, B, C & N</p>	<p>Connect one end of the 4 load cables with terminals A, B, C & N, the other end of load cables to EUT connection terminals</p>
<p>AC220V</p> 	<p>AC220V Power Supply Socket</p>	<p>Plug in the power cord to load bank socket with 220V single phase</p>
	<p>Power Cord</p>	<p>220V power cord</p>

	<p>ON-OFF Wheels</p>	<p>Press ON to lock the wheel Press OFF to unlock the wheel</p>
	<p>Grounding connection</p>	<p>Grounding before load bank testing</p>
	<p>Diagram</p>	<p>Load bank internal wiring connection Primary and secondary diagram</p>

Each load bank includes the standard items:

- ① Load Bank Main Unit--1 set
- ② Main Unit Power Cord--1 pcs
- ③ Products primary and secondary diagram (Products components wire connection diagram)--1 pcs
- ④ User Manual--1 pcs

Load Bank Operation Guide

- ① Make sure all load bank switches and EUT(equipment under test) are **POWER OFF** before connections.
- ② Plug in the power cord to load bank power socket
- ③ Make load cables connections between load bank connection terminals and EUT terminals accordingly by sequence of phase A/B/C/N/PE. Make sure from one cable to another.
- ④ Check again to make sure all load cables connection reliable.
- ⑤ Load bank mains supply power on, push on the green "**Power**"--**fans working**.
- ⑥ Power on the EUT
- ⑦ Push on the red load steps control switch "**LC**"--**ready to load test**.
- ⑧ Turn on/off the mini circuit breakers to adjust the load power.
- ⑨ Turn off all mini circuit breakers **firstly** and then "**LC**" to cut off all load power.
- ⑩ **Keep fans working for 20 minutes cooling, then push off the "Power"**
- 11 Cut off load bank & EUT power supply, remove all load cables.

Note:

- Remote control function is optional
- AC & DC load voltage could be made compatible in **ONLY** one unit with several different load voltages.



Ideas For Your Power Systems !

JUNXY-AC208V-100KW-R Resistive AC Load Bank

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- In some countries, 220V 1P will be replaced by 120V/230V/240V/277V 1P, 380V 3P will be replaced by 208V/400V/415V/480V 3P. Resistive AC load bank for load voltage 208V 3P and 120V 1P, 415V 3P and 240V 1P, 480V 3P and 277V 1P with higher load power are also available as per your need.