



supply systems maintenance.

Load bank testing could help highlight a large range of faults on the power supply systems it test. The first goal achieved when testing with JUNXY AC/DC 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 ENERGY offers you whole AC/DC load bank testing solutions of predictive failure analysis for UPS(uninterrupted power supply), generator,

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Why load bank testing is important?

JUNXY series AC/DC load banks are for many power supplies load bank testing, to ensure that the 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.

The AC/DC load bank loading test preventative maintenance of such power supply systems could free you from power supply failure, 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

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.

JUNXY AC/DC load banks applications

- Battery bank system acceptance test
- Energy storage system loading test
- Energy meter tampering simulation
- Datacenter rack server heat simulation
- PV system Inverter anti-islanding test
- Voltage regulator, rectifier aging load test
- Genset, UPS load bank commission testing
- AC/DC power supply, power source commission acceptance test

JUNXY series load banks standard protections

- Emergency pause operation: one-key stop loading
- Over temperature alarm/protection: alarm & remove load
- Fan interlock protection: loading available after fan activated
- Over voltage protection: alarm & remove load

JUNXY series load banks loading elements (load bank types)

Alloy resistors, inductors & capacitors loading elements are combined used in JUNXY series AC/DC load bank as per clients' need in different applications. JUNXY series load bank types include:

- Pure resistive AC load bank(**R-AC**)
- Pure resistive DC load bank(**R-DC**)
- Non-linear RCD AC load bank(**RCD**)
Diode Rectifier with Resistive & Capacitive Load(RCD)
- Resistive & inductive combined AC load bank(**RL**)
- Resistive, inductive & capacitive combined AC load bank(**RLC**)

Optional protections:

- Blower thermal overload protection: alarm & remove load
- Lack of air volume protection: alarm & remove load
- Short circuit protection by fuse(over current protection)
- Phase sequence protection(for fans with 3phase voltage)
- Air inlet & outlet temperature monitoring
- Or other functions as requested



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JUNXY series load bank control modes

Two control modes available for JUNXY series AC/DC load banks: The local panel control mode and the PC software remote control mode.

Local panel control mode available as below listed:

- By contactor
- By circuit breaker
- Or other switches as requested

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PC software remote control

JUNXY series AC/DC load bank remote control communication protocol would be provided for clients' integrating the load bank into the ATE system

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JUNXY Series Rack Mounted AC/DC Load Bank(RACK)

The JUNXY rack mounted AC & DC load banks are designed especially for internet data center (IDC) test and commissioning.

- Validating the tire level of data center
- Data center & server room cooling system test
- Data center air flow, hot/cold aisle environment inspection
- Validating the reliability of data center power supply & distribution system
- Testing the main network before connecting user devices (servers, switches, etc.)



Technical Specifications(Higher power load bank available if requested)

Models	AC120V-3KW	AC230V-3KW	AC230V-6KW	AC230V-10.5KW	DC270V-3KW	DC270V-6KW
Rated Power	3KW	3KW	6KW	10.5KW	3KW	6KW
Load Voltage	AC120V	AC230V			DC270V	
Mini Load Step	250W	250W	500W	500W	100W	100W
Dimension	3U	4U	4U	8U	4U	4U
	19" Standard Rack					
Options	Air flow control and display, digital meter, remote control					
Cables	C13-C14, C19-C20 or cable with IEC connector					



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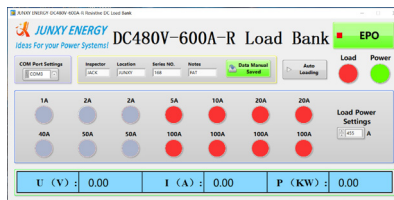


JUNXY Series Resistive DC Load Bank(R-DC)

JUNXY DC load banks are designed for acceptance testing, discharge testing, battery capacity testing, battery maintenance, engineering examination and many other tests for DC power supply

Technical Specifications (Higher power load bank available if requested)

Models	DC48V-50KW	DC100V-50KW	DC200V-100KW	DC400V-200KW	DC800V-400KW	DC1000V-500KW
Rated Power	50KW	50KW	100KW	200KW	400KW	500KW
Load Voltage	DC48V	DC100V	DC200V	DC400V	DC800V	DC1000V
Max Load Current	1042A	500A	500A	500A	500A	500A
Load Step	Mini 100W or 1A			Mini 1KW or 1A		
Digital Meter	U, I, P					
Load Accuracy	±5%					
Protections	Standard protections as above listed					
Control Mode	Local panel control, remote control is optional					
Air Flow	Force-air cooling					
Dimension(cm)	60*85*100	60*85*100	60*85*130	80*95*180	110*137*160	110*137*182

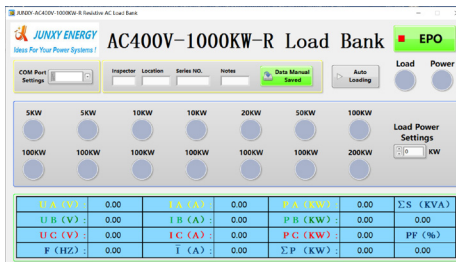




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JUNXY Series Pure Resistive AC Load Bank(R-AC)

Purely resistive load bank is the most common type of load bank, and it proves equivalent loading of both generator and prime mover. That is, for each kilowatt of load applied to the generator by the load bank, an equal amount of electrical energy converts to heat by power resistors, in a general way, this heat must be dissipated from the load bank by air forced means or other convection.

The JUNXY's resistors are made by high quality finned tubular heating elements, they are of the type where the surface area is enlarged by a strip in order to heat gases. At high power the surface temperature is small and the heating element is short. Meanwhile, Load elements are cooled usually via Fan Forced Air, blower power is typically provided by an outside source. Selected load banks are available with blower power derived from the power source under test.

Technical Specifications (Higher power load bank available if requested)						
Load Voltage (Select one)	1φ2W+G(50/60Hz): 120V, 220V, 230V, 240V					
	3φ4W+G, Y connection(50/60Hz): 190/110V, 200/115V, 208/120V, 220/128V, 230/132V, 240/139V, 380/220V, 400/230V, 415/240V, 440/254V, 460/265V, 480/277V					
	3φ3W+G, Delta connection(50/60Hz): 220V, 230V, 240V, 380V, 400V, 415V, 440V					
	Or other load voltage as per required					
Load Power	100KW	200KW	300KW	500KW	800KW	1000KW
PF	PF=1					
Load Step	Minimum 1KW					
Digital Meter	U, I, P, F, PF.					
Protections	Standard & Optional protections as above listed					
Control Modes	Manual: circuit breakers or push buttons or toggle switches. Auto: PC software remote control					
Cooling	Vertical or horizontal force-air cooling					
Dimension(cm)	60*85*130	80*95*180	120*137*161	110*137*182	110*147*182	160*185*185



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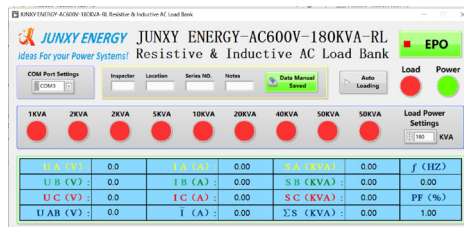
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JUNXY Series Resistive & Inductive AC Load Bank(RL)

JUNXY resistive & inductive AC load banks are used to simulate the motor loads or other electromagnetic devices working at their rated power factor. Many backup generators and turbines are rated at 0.7, 0.8 or 0.85 power factor and need to be commissioned at nameplate capacity using a combination of resistive and inductive load to fully qualify their operating capability.

Technical Specifications (Higher power load bank available if requested)					
Load Voltage (Select one)	1φ2W+G(50/60Hz): 120V, 220V, 230V, 240V				
	3φ4W+G, Y connection(50/60Hz): 190/110V, 200/115V, 208/120V, 220/128V, 230/132V, 240/139V, 380/220V, 400/230V, 415/240V, 440/254V, 460/265V, 480/277V				
	3φ3W+G, Delta connection(50/60Hz): 220V, 230V, 240V, 380V, 400V, 415V, 440V				
	Or other load voltage as per required				
Active Power	50KW	100KW	200KW	300KW	500KW
Reactive Power	37.5KVar	75KVar	150KVar	225KVar	375KVar
PF	PF=0.8(or customized power factor)				
Load Step	Minimum 1KW/1KVar				
Digital Meter	U, I, P, Q, S, F, PF				
Protections	Standard & Optional protections as above listed				
Control Modes	Manual: circuit breakers or push buttons or toggle switches. Auto: PC software remote control				
Cooling	Vertical or horizontal force-air cooling				
Dimension(cm)	65*100*165	80*110*180	110*137*155	140*140*180	160*160*190

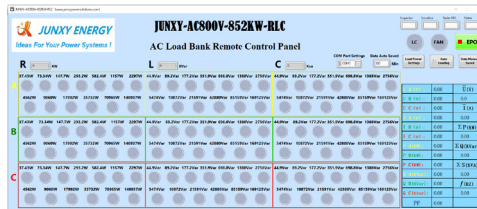
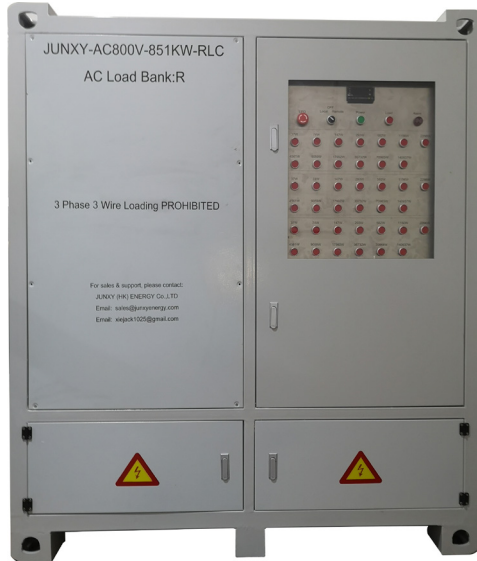




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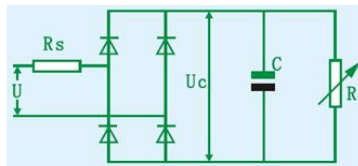
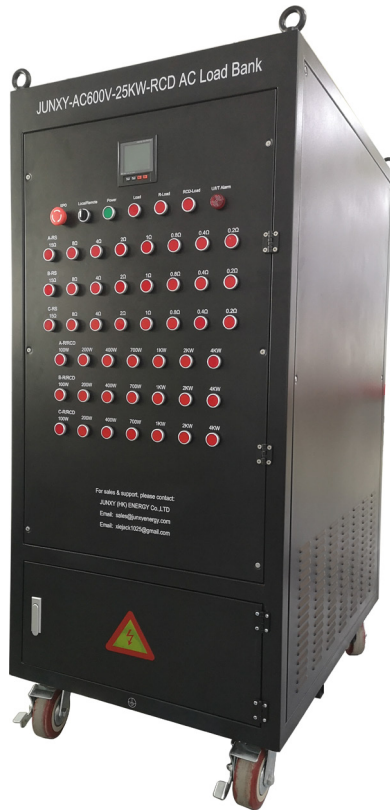
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JUNXY Series Resistive, Inductive & Capacitive AC Load Bank(RLC)

JUNXY RLC load banks are mostly used for inverter anti-islanding test experiments which meets the PV & grid inverter testing requirements for islanding prevention detection, work efficiency test, overload protection test, over-current protection test, power factor test, grid current harmonic test, resonance point test, and so on. Both Leading power factor (Capacitive) and lagging power factor (Inductive) could be available with JUNXY series RLC AC load banks.

Technical Specifications (Higher power load bank available if requested)						
Load Voltage (Select one)	1φ2W+G(50/60Hz): 120V, 220V, 230V, 240V					
	3φ4W+G, Y connection(50/60Hz): 190/110V, 200/115V, 208/120V, 220/128V, 230/132V, 240/139V, 380/220V, 400/230V, 415/240V, 440/254V, 460/265V, 480/277V					
	3φ3W+G, Delta connection(50/60Hz): 220V, 230V, 240V, 380V, 400V, 415V, 440V					
	Or other load voltage as per required					
Resistive Power	10KW	30KW	50KW	70KW	100KW	150KW
Inductive Power	10KVar	30KVar	50KVar	70KVar	100KVar	150KVar
Capacitive Power	10KVar	30KVar	50KVar	70KVar	100KVar	150KVar
PF	Leading & Lagging PF=0-1.0 adjustable					
Load Step	Minimum 10W					
Digital Meter	U, I, P, Q, S, F, PF					
Protections	Standard & Optional protections as above listed					
Control Modes	Manual: circuit breakers or push buttons or toggle switches. Auto: PC software remote control (Select one)					
Cooling	Vertical or horizontal force-air cooling					
Dimension(cm)	65*100*155	75*110*180	70*130*170	75*140*180	120*140*180	130*160*200


JUNXY Series RCD AC Load Bank(RCD): Diode Rectifier with Resistive & Capacitive Load

JUNXY series RCD load banks are similar to a reactive load bank in rating and purpose, except that leading power factor loads are created. The RCD load banks are used to simulate the non-linear or electronic loads typically for the industries: telecommunication, computer, UPS, generator & inverter, to test the real load capacity & crest factor.

Technical Specifications (Higher power load bank available if requested)						
Load Voltage (Select one)	1φ2W+G(50/60Hz): 120V, 220V, 230V, 240V					
	3φ4W+G, Y connection(50/60Hz): 190/110V, 200/115V, 208/120V, 220/128V, 230/132V, 240/139V, 380/220V, 400/230V, 415/240V, 440/254V, 460/265V, 480/277V					
	3φ3W+G, Delta connection(50/60Hz): 220V, 230V, 240V, 380V, 400V, 415V, 440V					
	Or other load voltage as per required					
Frequency	50Hz or 60Hz(Select one)					
Resistive Power	10KW	30KW	50KW	100KW	150KW	200KW
Capacitive Power	10KVar	30KVar	50KVar	100KVar	150KVar	200KVar
PF	PF=0.6-1.0 adjustable					
Load Step	Minimum 100W/1KW					
Digital Meter	U, I, P, Q, S, F, PF					
Protections	Standard & Optional protections as above listed					
Control Modes	Manual: circuit breakers or push buttons or toggle switches. Auto: PC software remote control (Select one)					
Cooling	Vertical or horizontal force-air cooling					
Dimension(cm)	60*80*100	80*80*100*	80*90*120	80*120*160	100*120*180	130*150*180