



sales@junxyenergy.com & xiejack1025@gmail.com *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

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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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









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	ЗКW	3KW	6KW	10.5KW	3KW	6KW			
Load Voltage	AC120V		AC230V			270V			
Mini Load Step	250W	250W	500W	500W	100W	100W			
Dimension	3U	4U	4U	8U	4U	4U			
			19" Star	dard Rack					
Options		Air flow	control and display	, digital meter, remote	control				
Cables		C13	3-C14, C19-C20 or	cable with IEC conne	ctor				





COM Port Settings	Inspector MCK	Location Juncor	Series ND. Note		Data Manual Saved	D Auto Loading	Load Po
14	24	24	SA	104	20A	20A	Load Power
\bigcirc	0	0	•	•	•	•	Settings
40A	SOA	50A	100A	100A	100A	100A	A12

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

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	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	5%						
Protections			Standard protection	ons as above listed						
Control Mode			Local panel control, rei	mote control is option	al					
Air Flow			Force-ai	r cooling						
Dimension(cm)	60*85*100	60*85*100	60*85*130	80*95*180	110*137*160	110*137*182				

5





JUNXY	ENERGY	AC400	V-100	OKW-R	Load	Bank	EPO
COM Port Settings		Inspector Location	n Series NO.	Notes	Data Manual Saved	Auto Loading	Load Powe
5KW	5KW	10KW	10KW	20KW	SOKW	100KW	
							Load Power Settings
100KW	100KW	100KW	100KW	100KW	100KW	200KW	: KW
U A	(V) : (0.00	1 A (A) :	0.00	PA(KW):	0.00	ΣS (KVA)
U B	(V): 0	0.00	IB(A):	0.00	PB(KW):	0.00	0.00
UC	(V): 0	0.00	IC (A) :	0.00	PC(KW):	0.00	PF (%)
P ()	HZ): (0.00	Ī (A) ;	0.00	ΣP (KW):	0.00	0.00

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)										
	4	1φ2W+G(50/60Hz): 120V, 220V, 230V, 240V									
	3φ4W+G, Y conne	3φ4W+G, Y connection(50/60Hz): 190/110V, 200/115V, 208/120V, 220/128V, 230/132V, 240/139V, 380/220V, 400/230V, 415/240V,									
Load Voltage	440/254V, 460/265V, 480/277V										
(Select one)	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			P	F=1							
Load Step			Minim	um 1KW							
Digital Meter			U, I, F	P, F, PF.							
Protections			Standard & Optional p	rotections as above liste	ed						
Control Modes		Manual: circuit breake	rs or push buttons or to	ggle switches. <mark>Auto</mark> : PC	c software remote contr	ol					
Cooling			Vertical or horizo	ntal force-air cooling							
Dimension(cm)	60*85*130	80*95*180	120*137*161	110*137*182	110*147*182	160*185*185					





				C600V-180KV tive AC Load		EPO
COM Port Settings	Inspector	Location Series NO.	Notes		Auto Loading	Load Powe
1KVA 2KVA	2KVA	SKVA 10KVA	20KVA	40KVA 50KVA	50KVA	Load Power Settings
U.A. (V) :	0.0	1 A (A) :	0.00	S.A. (KVA) :	0.00	f (HZ)
UB(V);	0.0	IB(A):	0.00	SB(KVA):	0.00	0.00
UC(V):	0.0	IC (A) :	0.00	SC(KVA):	0.00	PF (%)
UAB(V):	0.0	Ī (A) :	0.00	$\Sigma S (KVA)$:	0.00	1.00

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)									
	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,									
Load Voltage	440/254V, 460/265V, 480/277V									
(Select one)	3ø3W+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	Manua	circuit breakers or push bu	uttons or toggle switches. Auto	: PC software remote con	trol					
Cooling		Vertica	l 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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	🔣 JUNXY ENERGY	JUNXY-AC800V-852KW-RLC		ĎĊ		
	Ideas For Your Power Systems I	AC Load Bank Remote Control Panel		LC	FAN	EPO
	R 🛌 🚥	L m. C to An		Lasthcar Settings	- Ante	Ten Monar Sanat
	37.43W 75.54W 147.7W 285.2W 562.4W 1157W 2297W	44.9Var 88.2Var 177.2Var 351.9Var 606.9Var 1389Var 2759Var 44.9Var 89.2Var 177.2Var 351.9Var 60	8.8Km 1588Km 2756Vor			
			• • •		6.06	Ūm
	434290 9040W 17992W 31732W 70960W 142932W	MORTH 1002206 200706 4200906 0002206 1002206 14002206 1007206 200006 4200	W 83139Vw 1991231w	0 8 (92 ::	6.00	0.0
				: (e) 3 3	606	1(1)
	TATE 71.000 107.700 201.200 502.000 111200 220200	44 Nov - 18 Nov 177 Nov 181 Nov 184 Nov 188 Nov 188 Nov 276 Nov - 44 Nov - 184 Nov 177 Nov 165 Nov 18	A DECK LINESE VILLAND		6.00	0.00
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	4042W 2050W 13392W 25322W 20960W 140907W	54747w 108727w 215974w 428897w 655597w 169227w 54747w 108727w 25597w 42889	A ELISIAN ISTUDAN	1.0001		ΣQ(XVar)
				2.000	6.06	0.00
	17.41W 75.54W 147.7W 215.2W 582.4W 1157W 2297W	44.90ar 85.20ar 177.20ar 351.90ar 656.90ar 13890ar 27500ar 44.90ar 35.20ar 177.20ar 351.90ar 6	Allia 13866a 27565a	P CON:	6.00	Σ S(E7A)
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JUNXY Series Resistive, Inductive & Capacitive AC Load Bank(RLC)

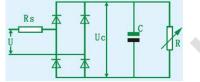
JUNXY RLC load banks are mostly used for inverter anti-islanding test experiments which meets the PV & grid inverter testing requirements for islanding prevention detection, work efficiency test, overload protection test, over-current protection test, power factor test, grid current harmonic test, resonance 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.

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		Technical Specification	ons (Higher power loa	d bank available if req	uested)					
	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,									
Load Voltage										
(Select one)	(Select one) 3q3W+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 & Laggi	ng PF=0-1.0 adjustable						
Load Step		7	Min	imum 10W						
Digital Meter			U, I, F	P, Q, S, F, PF						
Protections			Standard & Optional	protections as above lis	sted					
Control Modes		Manual: circuit breal	kers or push buttons or	toggle switches. Auto: F	PC software remote con	trol				
			(S	elect one)						
Cooling			Vertical or horiz	zontal 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 & invertor, to test the real load capacity & crest factor.

	1	Fechnical Specification	ons (Higher power loa	d bank available if req	uested)				
		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,								
Load Voltage	440/254V, 460/265V, 480/277V								
(Select one)	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			Minimu	m 100W/1KW					
Digital Meter			U, I, P	, Q, S, F, PF					
Protections			Standard & Optional	protections as above lis	sted				
Control Modes		Manual: circuit break	kers or push buttons or	toggle switches. Auto: F	PC software remote cor	itrol			
			(Se	elect one)					
Cooling			Vertical or horiz	contal force-air cooling					
Dimension(cm)	60*80*100	80*80*100*	80*90*120	80*120*160	100*120*180	130*150*180			