



## K-1000 Series AC Load Bank

---With More Customized Solutions

Load bank testing is vital to replicate and verify the operation of critical backup power systems such as diesel generators and uninterruptible power supplies (UPS). Kongter offers a wide range of customer-tailored AC load banks that excel in a range of load test applications and environments.

Rugged and durable, we offer purely resistive, portable units up to high capacity resistive reactive containerized solutions. Combined with state-of-art load bank control, Kongter provides comprehensive testing, monitoring and reporting capabilities with unrivalled ease, efficiency and value for money.

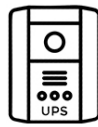
### Features:

- ◆ Compact load bank unit with user friendly control panel.
- ◆ Effectively applied for full load test of generator set, UPS and other AC power systems.
- ◆ Sectionalized control of input power enables any customized setting of load step and time.
- ◆ Real-time display of test current, voltage, power, power factor, time and frequency.
- ◆ Alternative control modes by local control of circuit breaker/push button or PC control.
- ◆ PC software com protocol is open for data integration to customer's IT system.
- ◆ Emergency stop button for quick termination of AC load test.
- ◆ Protection upon over load, over voltage, over temperature, short circuit and so on.
- ◆ It adopts latest load element with high density power, safer and more durable.
- ◆ Axial flow fans with big blast capacity for quick ventilation with low noise.
- ◆ Many more customized models (resistive, inductive, capacitive or combined) available upon request

### Application:



Generator



UPS



Utility



Data Center



Rectifier



Engineering



Industrial Production



Government



Aviation



Military

### Protection & Control:

#### Standard Protections:

- ◆ Emergency stop 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

#### 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 3 phase voltage)

- ◆ Air inlet & outlet temperature monitoring
- ◆ Or other functions as requested

### Control Modes

Two control modes available for our series AC load banks via local panel and PC software.

- ◆ Local control mode by contactor or circuit breaker as requested by customer
- ◆ PC software control (optional)

Communication protocol of PC software is open to users for integration to their own system.

### Load Bank Types:

Kongter offers a whole range of AC load bank including resistive only and resistive/reactive combined units from small rack mounted ones to huge container types. Some common types include:

- ◆ Resistive Only (R)
- ◆ Resistive/Inductive (RL)
- ◆ Resistive/Capacitive (RCD)
- ◆ Resistive/Inductive/Capacitive (RLC)
- ◆ Rack Mounted Load Bank (RM)



### Technical Specification:

Here are the technical specifications for some common models of different load types. We also build customized models as per customer's need. Please contact Kongter for details.

#### >>> Resistive Only

Models	R-6kW -AC220V	R-30kW -AC380V	R-60kW -AC380V	R-100kW -AC380V	R-200kW -AC380V	R-500kW -AC380V
Capacity:	6kW	30kW	60kW	100kW	200kW	400kW
Rated Voltage:	AC220V±10%	Three Phase AC380V/400V±10%				
Rated Current:	1P:27.2A	1P:45.5A 3P:136.5A	1P:91A 3P:272.7A	1P:151.5A 3P:454.5A	1P:303A 3P:909A	1P:608A 3P:1824A
Frequency:	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz

Power Factor:	PF=1.0					
Minimum Load Step:	100W	100W	100W	1kW	1kW	10kW
Display:	Voltage, Current, Frequency, Power and PF displayed on digital meter					
Protection:	Overheat alarm, Overheat protection, Short circuit protection, Over/Low voltage protection, Over current protection & Emergency stop button.					
Control Mode:	Manual control by MCBs or push buttons per customer's choice					
Air Flow:	Horizontal, Force-air cooling					
Dimension:	49*60*21cm	50*67*116cm	51*97*110cm	51*97*155cm	80*120*161cm	80*180*150cm
Options:	Handle panel or PC remote control					

### >>> Resistive/Inductive (RL)

Models	RL-6kW -AC230V	RL-30kW -AC480V	RL-60kW -AC480V	RL-100kW -AC480V	RL-200kW -AC480V	RL-500kW -AC480V
Capacity	Resistive load:	Resistive load:	Resistive load:	Resistive load:	Resistive load:	Resistive load:
	6kW	30kW	60kW	100kW	200kW	500kW
	Inductive load:	Inductive load:	Inductive load:	Inductive load:	Inductive load:	Inductive load:
	4.5kVAR	22.5kVAR	45kVAR	75kVAR	150kVAR	375kVA
Customized solutions available upon request.						
Rated Voltage	Single Phase, AC230V	Three Phase AC480V, or units can be specified by customer				
	Customized solutions available upon request.					
Rated Current	Resistive amperes per phase: 26A	Resistive amperes per phase: 36A	Resistive amperes per phase: 72A	Resistive amperes per phase: 120A	Resistive amperes per phase: 240A	Resistive amperes per phase: 601A
at 480VAC	Reactive amperes per phase: 20A	Reactive amperes per phase: 27A	Reactive amperes per phase: 54A	Reactive amperes per phase: 90A	Reactive amperes per phase: 180A	Reactive amperes per phase: 451A
PF	PF=0.8					
Minimum Load Step	100W, 100VAR	100W, 100VAR	100W, 100VAR	1kW, 1kVAR	1kW, 1kVAR	1kW, 1kVAR
	Customized solutions available upon request.					
Display	Voltage, Current, Frequency, Power and PF displayed by digital meter					
Protection	Overheating alarm, Short circuit protection, Overheating protection, Fan overloading protection, Emergency stop button.					
	All protections can be configured optionally					
Control Mode	Manual control by MCBs or push buttons					
Air Flow	Horizontal, Force-air cooling					
Dimension	51*50*110cm	90*90*160cm	90*90*200cm	120*120*200cm	90*90*200cm	120*120*200cm
Options	Handle panel or PC remote control selectable					

### >>> Resistive/Capacitive (RCD)

Models	RCD-10kW-AC240V	RCD-30kW-AC415V	RCD-60kW-AC415V
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RatedCapacity:	Resistive: 10kW	Resistive: 30kW	Resistive: 60kW
	Capacitive: 10kVAR	Capacitive: 30kVAR	Capacitive: 60kVAR
	Customized solutions available upon request.		
Rated Voltage:	1P: AC240V	3P AC415V, or units can be designated by customer	
	Customized solutions available upon request.		
Maximum current:	96A	1P: 96A	1P: 192A
		3P: 288A	3P: 576A
Frequency:	50/60 Hz		
PF	PF=0.6-1.0		
Minimum Load Step:	100W, 100VAR	100W, 100VAR	100W, 100VAR
	Customized solutions available upon request.		
Digital Meter:	Voltage, Current, Frequency, Power and PF displayed by digital meter		
Protection:	Overheating alarm, Short circuit protection, Overheating protection, Fan overloading protection, Emergency stop button.		
	All protections can be configured optionally		
Control Mode:	Manual control by MCBs or push buttons		
Air Flow:	Horizontal, Force-air cooling		
Dimension:	51*63*120cm	51*97*120cm	80*140*185cm

### >>> Resistive/Inductive/Capacitive (RLC)

Model:	RLC-30kW-AC480V	RLC-60kW-AC480V	RLC-100kW-AC480V
Capacity:	Resistive load: 30kW	Resistive load: 60kW	Resistive load: 100kW
	Inductive load: 30kVAR	Inductive load: 60kVAR	Inductive load: 100kVAR
	Capacitive load: 30kVAR	Capacitive load: 60kVAR	Capacitive load: 100kVAR
	Or customer defined		
Rated Voltage:	Rated voltage Three Phase 480VAC,		
	or units can be specified by customer		
Frequency:	50Hz and 60Hz are available		
PF:	0.1-1.0		
Min. Load Step:	100W, 100VAR	1kW, 1kVAR	1kW, 1kVAR
	Or customer defined		

### >>> Rack Mounted Load Bank (RM)

Model	RM-6KW-AC240V
Load Element	Alloy resistors
Load Voltage	AC240V single phase 50Hz
Load Power	6KW@AC240V
Load Steps	0.5, 0.5, 1, 2, 2(0.5KW to 6KW adjustable)
Power Factor	PF=1
Load Accuracy	±5%
Power Supply	From test source(PDU)
Two Control Modes	LOCAL: Manual control by push buttons
	REMOTE: ONE PC software remote control for all 22 sets of load bank
	Could set both individual and group load bank power
Wire Connections	3 sets load cable of C19 to C20 for loading

Insulation Class	F
Protection Level	IP20 (for indoor use)
Cooling Mode	Force-air cooling and air flow adjustable: cold air front inlet & hot air back outlet
Work Mode	Continuous work
Protection	Overheating protection
Dimension	6U, 19" Standard Rack
Ambient Temperature	-10°C ~ +50°C
Mobility	Front handles
Humidity	≤95%
Altitude	≤2500 meters

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