



## KACL Series Variable Frequency AC Power Supply

- Constant voltage output
- Flexible work step setting: Step/Gradient Mode
- Establish protection parameters: Overvoltage/Overcurrent point
- Independent three-phase
- External emergency stop

### Summary

KACL Series is a variable frequency AC power supply of two-stage power conversion structure, featuring high-precision, wide output range, and independent three-phase. The product works in three modes: General/Step/Gradient Mode, satisfying the versatile demands of DC charging pile testing including overvoltage, undervoltage, over-frequency, and under-frequency tests. It is an ideal testing solution for research institutes, laboratories, inspection agencies, and authentication centers etc.

### Advantages

- Support parallel operation of multiple equipment;
- Fast voltage response;
- Low THDs $\leq$ 1% (linear load);
- Complete safety protection: OVP/OCP/OTP/OPP etc.;
- High precision voltage/current output;
- Standard communication interfaces: LAN/RS485.

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### Specifications & Parameters

Models	Power Capacity (kVA)	Rated Current (A)	Rated Voltage (V)	Frequency (Hz)	Phase	Voltage Range (V)
KACL-75-345-33	75	113	220	45-65	3 $\phi$ 4W	5-345
KACL-150-345-33	150	227	220	45-65	3 $\phi$ 4W	5-345
KACL-300-345-33	300	454	220	45-65	3 $\phi$ 4W	5-345
KACL-400-345-33	400	606	220	45-65	3 $\phi$ 4W	5-345

NOTE: Rated voltage, current, and frequency can be customized.

Input Requirements		
Phase	3 $\phi$ 3W+PE	
Voltage	380V $\pm$ 11%	
Frequency	50Hz $\pm$ 1Hz	
Step Mode		
Step Mode	Max. 50 sets of work steps. Voltage, frequency, and operation time are recorded for each set.	
Gradient Mode	Max. 50 sets of work steps. Voltage, frequency, and operation time are recorded for each set.	
Protection	OVP/OCP/OTP/Phase loss/Emergency stop etc.	
Output Characteristics		
Voltage	Waveform	Sinusoidal wave
	Precision	$\pm$ 0.5% FB (linear load)
	Setting Resolution	0.1V
	Display Resolution	0.1V
	Load Regulation	0.2% FB
	THD	$\leq$ 1% (linear load)
Response Time	$\leq$ 20ms (10%-90%) with frequency changing at the same time	
	No DC offset (Built-in isolating transformer)	
	Precision	$\pm$ 1% FB (linear load)
Current	Display Resolution	0.1A
	Precision	$\pm$ 0.11%
	Setting Resolution	0.01Hz
Frequency	Display Resolution	0.01Hz
	Adjustment Step Length	0.1"
	Adjustment Range	360°
Communication Interfaces		
Local Interface	LCD	
Remote Comms	RS485/LAN	
Others	External emergency stop/Fault signal	
Safety & Ambient Conditions		
Insulation Resistance	$\geq$ 20M $\Omega$ /1000Vdc	
Withstand Voltage	2000Vdc (60s, no arcing/breakdown)	
Ground Resistance	$\leq$ 10 $\Omega$	
Protection Level	IP21 (door)	
Cooling	Fan cooling	
Ambient Temperature	-10~40°C	
Relative Humidity	0~90%RH (Non-condensing at 25°C)	
Altitude	$\leq$ 2000m	

### Software Interfaces

Amplitude and position of each phase can be set independently. Test operation can be proceeded in three modes: General/Step/Gradient Mode.



Gradient Mode



Step Mode