



# KACL Series Variable Frequency AC Power Supply

- Constant voltage output ●
- Flexible work step setting: Step/Gradient Mode ●
- Editable 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 THD $\leq$ 1% (linear load);
- Complete safety protection: OVP/OCP/OTP/OPP etc.;
- High precision voltage/current output;
- Standard communication interfaces: LAN/RS485.

HEFEI KEWELL POWER SYSTEM CO., Ltd.

China Headquarter    Taiwan Branch    Korea Branch    Germany Branch    sales2@kewell.com.cn  
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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 $\pm$ 15%
Frequency	50Hz $\pm$ 5Hz

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.

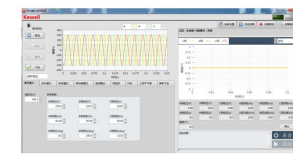
Output Characteristics		
Voltage	Waveform	Sinusoidal wave
	Precision	$\pm$ 0.5% FS (linear load)
	Setting Resolution	0.1V
	Display Resolution	0.1V
	Load Regulation	0.2% FS
	THD	$\leq$ 1% (linear load)
	Response Time	$\leq$ 20ms (10%-90%) with frequency changing at the same time
Current	DC Offset	No DC offset (Built-in isolating transformer)
	Precision	$\pm$ 1% FS (linear load)
	Display Resolution	0.1A
Frequency	Precision	$\pm$ 0.01Hz
	Setting Resolution	0.01Hz
	Display Resolution	0.01Hz
Phase	Adjustment Step Length	0.1°
	Adjustment Range	360°

Communication Interfaces	
Local Interface	LCD
Remote Comms	RS485/LAN
Others	External emergency stop/Fault signal

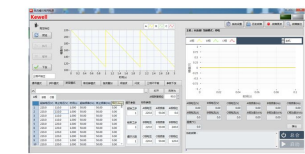
Safety & Ambient Conditions	
Insulation Resistance	$\geq$ 20M $\Omega$ (500Vdc)
Withstand Voltage	2000Vac (60s, no arcing/breakdown)
Ground Resistance	$\leq$ 0.1 $\Omega$
Protection Level	IP21 (indoor)
Cooling	Fan cooling
Ambient Temperature	-10~40°C
Relative Humidity	0-90%RH (Non-condensing at 25°C)
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