

Bidirectional Programmable AC Source-load System

G6000 Series



Kewell G6000 series is a four-quadrant AC source-load system featuring high precision, high power density, and high dynamic response. As source, it supports three-phase independent adjustment, LIST/PULSE/STEP modes, and simulation of grid disturbances and exceptions to test the grid tolerance of the DUT. As source, it has multiple built-in AC load models to simulate linear loads. The G6000 series supports AC/DC/AC+DC output, waveform editing, harmonic/inter-harmonic injection, as well as standard HVRT/LVRT curves of China, Europe, the U.S., etc., meeting varied test requirements.



18kVA in 3U

Ultra-high power density



Multiple Modes

LIST/STEP/PULSE/Harmonic



1ms

Simulation of transient grid interruptions



AC & DC in one

AC√ DC√ AC+DC√



Built-in standard curves

One-click to call built-in HVRT/LVRT waveforms and harmonic waveforms



3V/μs

Microsecond voltage response



Parallel

Flexible paralleling for higher power



Efficiency ≥ 88%

Lower carbon emissions

Normal

Fundamental,
Cost-effective



Pro

Fully-featured,
Multi-scenario



Ultra

Ultimate experience,
Lab testing-oriented

G6000 Series						
Function Params		Version		Normal	Pro	Ultra
Model	18kW	450V	90A	•	•	•
	6kW	450V	90A	•	•	•
Functions	Bidirectional			-	•	•
	Unidirectional			•	-	-
	AC			•	•	•
	DC			-	•	•
	AC+DC			-	•	•
	LIST/Pulse/Step			-	•	•
	Waveform editing			-	•	•
	Harmonic mode			-	•	•
	Inter-harmonics mode			-	•	•
Output parameters	Voltage accuracy				≤0.05%+0.05%F.S.	
	Current accuracy				0.1%+0.1%F.S.	
	Voltage slew rate				3V/us	
	Frequency range				15Hz ~ 200Hz	
	Frequency accuracy				0.01%	
	U _{THD}				< 0.5%@50Hz/60Hz	
					< 1%@15Hz ~ 200Hz	
	Harmonic order				Any voltage harmonics can be edited 2-100 times (5kHz max)	
	Harmonic content				50%	
	Range of phase setting				0 ~ 359.9°	
Efficiency				> 88%		
Input parameters	Grid voltage				342 ~ 528V	
	Grid frequency				47-63Hz	
General parameters	Operating temperature				0 ~ 40°C	
	Dimensions				699(D)*445(W)*133(H)	

