

Product Datasheet - Technical Specifications



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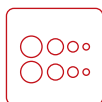
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Bidirectional Programmable AC Power Supply

A2000 Series

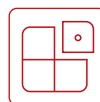


A2000 Series is a bidirectional programmable AC power supply featuring high accuracy, high dynamic response, and high efficiency. The series adopts SiC design of the third-generation wide bandgap semiconductor devices, allowing it to be modularized and standardized, offering industry leading performance + experience. A2000 Series supports waveform editing, harmonic/inter-harmonic injection, RLC load and other functions, with built-in standard curves of different countries to meet the testing requirements of various industries.



163kW/m³

High power density



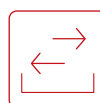
Independent Modules

Flexible, stable, easy maintenance



Source-load in One

One click to switch mode



SiC Design

All-new generation



Standard Curves

One click to call LVRT/HVRT, harmonics, etc.



<800μs

High dynamic response
@10%-90%U



LIST/PLUSE/STEP ...

Multiple programming functions



Efficiency ≥ 94%

Energy-saving and environmentally friendly

Normal

Fundamental, Cost-effective



Pro

Fully-featured, Multi-scenario

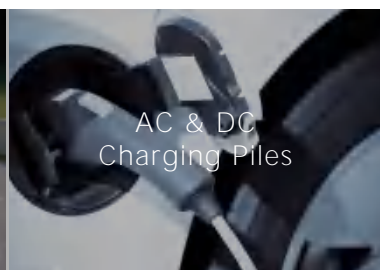


Ultra

Ultimate experience,
Lab testing-oriented

A2000 Series					
Function Params		Version	Normal	Pro	Ultra
Voltage range	0-450V		●	●	●
Power/ Current	45kW/90A		●	●	●
	75kW/114A		●	●	●
	150kW/228A		●	●	●
	225kW/342A		●	●	●
Functions	AC source		●	●	●
	General-purpose AC load		-	●	●
	RLC load		-	-	●
	Communication interfaces RS485/LAN/CAN		●	●	●
Output frequency	Frequency range		40-70Hz	40-70Hz	40-100Hz
	Frequency accuracy		±0.01% or 0.005Hz, whichever is higher		
Output voltage	Voltage accuracy		±0.1%F.S.	±0.1%F.S.	±0.05%F.S.
	Output THD		< 0.5%@50Hz/60Hz no load < 1%@50Hz/60Hz linear load	< 0.5%@50Hz/60Hz no load < 1%@50Hz/60Hz linear load	< 0.2%@50Hz/60Hz no load < 0.5%@50Hz/60Hz linear load
			< 1.0%@40-70Hz no load < 1.5%@40-70Hz linear load	< 1.0%@40-70Hz no load < 1.5%@40-70Hz linear load	< 0.2%@40-100Hz no load < 1%@40-100Hz linear load
	Voltage slew rate		AC > 1V/us		
	Dynamic response (10%-90% Umax)		< 800us		
	DC component		50mV		
Output current	Current accuracy		±0.1%rd+0.2%F.S.	±0.1%rd+0.2%F.S.	±0.05%rd±0.2%F.S.
	Resolution		0.001A		
Output power	Power accuracy		±0.3%F.S.	±0.3%F.S.	±0.2%F.S.
	Resolution		0.001VA		
Output phase	Phase range		0-359.99		
	Phase accuracy		±0.2°		
Harmonics	Harmonic amplitude error		±5% set value (less than 25th) or 0.1% fundamental value		
	Order		50 th @50-60Hz	50 th @50-60Hz	70 th @50-60Hz
	Max. content		50%		
Flicker	Grade		1.0~10.0		
	Accuracy		±0.2		
Three-phase imbalance	Accuracy of imbalance level		±0.5%		
Input parameters	Voltage		323-440V		
	Frequency		47-63Hz		
General parameters	Dimensions/Weight		See product portfolio for details		

Note: ● come with standard equipment - none



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