

SP300VAC5000W



Specification

MODEL	SP300VAC5000W Advanced	SP300VAC5000W Professional
INPUT		
Voltage	190~265VAC	
Frequency	47~63Hz	
Phase	1 Phase, 2Wire+Groud	
Max. Current	30A	
Power Factor at 220VAC Input , Full Load	≥0.99 Active PFC	
Efficiency	>87% (Peak) >86% at 220VAC, 50Hz input/220VAC, 50Hz output, Full Load	
OUTPUT		
AC Power	5000VA	
Max. Current (r.m.s)	0~150V(L)	46A
	0~300V(H)	23A
Max. Current (Peak)	0~150V(L)	184A
	0~300V(H)	92A
Phase	1 Phase	
Total Harmonic Distortion (THD)	<0.5% (Resistive Load) at 15.0~70.0Hz and output voltage within the 80~140VAC at Low Range or the 160~280VAC at High Range <1% (Resistive Load) at 70.1~500Hz and output voltage within the 80~140VAC at Low Range or the 160~280VAC at High Range <1% (Resistive Load) at 501~1000Hz and output voltage within the 100~140VAC at Low Range or the 160~280VAC at High Range <2% (Resistive Load) at 1001~1200Hz and output voltage within the 100~140VAC at Low Range or the 160~280VAC at High Range Note: 1001~1200Hz only available to Professional Version Models	
Crest Factor(CF)	≤4	
Load Regulation	±0.1V	
Line Regulation	± (1% of output + 1V)	
Voltage(AC)	Range	0~300VAC, 150V/300V/Auto Mode
	Resolution	0.1V
	Accuracy	0.2% of setting +0.2%F.S.
Phase Angle (Starting /Ending)	Range	0~359.9°
	Resolution	0.1°
	Accuracy	±1° @45~65Hz



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MODEL	SP300VAC5000W Advanced	SP300VAC5000W Professional	
Voltage(DC)	Range	0~424VDC	
	Resolution	0.1V	
	Accuracy	0.2% of setting +0.2%F.S.	
	Max.Power	5000W	
	Max Current (L/H Range)	L	32.6A
		H	16.3A
	Ripple & Noise(r.m.s)	L	<700mVrms @Bandwidth 20Hz to 1MHz
H		<1100mVrms @Bandwidth 20Hz to 1MHz	
Ripple & Noise(Peak)	L	<4000mVp-p @Bandwidth 20Hz to 1MHz	
	H	<4000mVp-p @Bandwidth 20Hz to 1MHz	
Current OC Fold Mode	Resolution	0.01A	
	Accuracy	2.0% of setting +0.1%F.S.	
	Response Time	<1400ms	
Frequency	Range	15~1000Hz Full Range ADJ	
	Resolution	0.1Hz at 15.0~99.9Hz, 1Hz at 100~1000Hz	
	Accuracy	0.03% of setting	
		15~1200Hz Full Range ADJ	
Programmable Output Impedance	Range	Not Support	
		0Ω +200μH~1Ω +1mH	
Harmonic & Inter-harmonics Simulation	Range	Not Support	
		2400Hz	
MEASUREMENT			
Voltage	Range	AC 0~300VAC DC 0~424VDC	
	Resolution	0.1V	
	Accuracy	0.2% of setting +0.2%F.S.	
Frequency	Range	15~1000Hz	
	Resolution	0.1Hz at 15.0~99.9Hz, 1Hz at 100~1000Hz	
	Accuracy	0.1% of setting	
		15~1200Hz	
Current (r.m.s)	Range	H 0.2A~46A	
		M 0.15A~20A	
		L 0.1A~5A	
		mA 0.02A~1.5A	
	Resolution	0.01A	
	Accuracy	H/M	0.4%+0.3%F.S.
L/mA		0.4%+1.0%F.S.	

- OC
- OVP
- OPP
- TC
- SC
- SHORT
- RS232
- RS485
- LAN
- GPIB
- CE
- UL

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MODEL		SP300VAC5000W Advanced	SP300VAC5000W Professional
Current (Peak)	Range	0.05A~188A	
	Resolution	0.01A	
	Accuracy	H/M 0.4%+0.6%F.S. L/mA 0.4%+1.0%F.S.	
Power	Range	0~5100W	
	Resolution	0.1W	
	Accuracy	0.4% of setting +0.3%F.S. at PF>0.2, Voltage >5V	
Power Apparent (VA)	Range	0~5100VA	
	Resolution	0.1VA	
	Accuracy	Voltage*Irms, Calculated value	
Power Resistive (VAR)	Range	0~5100VAR	
	Resolution	0.1VAR	
	Accuracy	$\sqrt{(VA)^2 - (W)^2}$, Calculated value	
Power Factor (PF)	Range	0.00-1.00	
	Resolution	0.01	
	Accuracy	W/VA, Calculated value	
Harmonic	Range	Not Support	2~40 orders
EXTRA FUNCTION			
Slew Rate	Range	AC Voltage	0.001~1200.000V/ms and Disable
		DC Voltage	0.001~1000.000V/ms and Disable
		Frequency	0.001~1600.000Hz/ms and Disable
Remote Sense	Range	5V(rms), Max. Total power less than rated power	
Transient Generator (only for 15~70Hz)	Range	Trans-Start : 0.0~66.5ms @15Hz, Resolution : 0.1ms Trans-Volt : -212V~+212V(L), -424V~+424V(H), Resolution : 0.1V Trans-Time : 0.0~66.5ms @15Hz, Resolution : 0.1ms Trans-Count : 0~9999, Constant	
Calibration	Firmware-based calibration through the digital interface or front panel display		
Test Function	Yes		
Parallel Output for 1 Phase	Yes, 4 Units Max. (Option: Remote I/O&Parallel, Multiphase Link Card)		
Series Output for 1 Phase	Yes, 2 Units Max. (Option: Remote I/O&Parallel, Multiphase Link Card)		
Link Output for 3 Phase	Yes (Option: Remote I/O&Parallel, Multiphase Link Card)		
GENERAL			
Graphic Display	5.6" Color touch LCD		
Operation Key Feature	Soft key, Numeric key, Rotary Knob, Support USB disk		



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Rack mount Handles	Yes		
FAN	Temperature Control		
Protection Circuits	OCP, OVP, OPP, OTP, RCP, PRI_LVFP, PRI_OVP, PRI_OTP, PRI_OCP, USB_OCP		
Interface	USB, RS485, RS232, LAN(Standard); GPIB(Option)		
REMOTE CONTROL INPUT/OUTPUT SIGNAL CHARACTERISTICS(OPTION)			
Remote Input Signal	Signal input for external trigger for execution of programmed value		
	Signal : ON/OFF, RESET, KEEP OFF, Recall program memory 1 through 7		
Remote Output Signal	Signal output indicating that a test mode is present		
	Signal : PASS, FAIL, TEST-IN-PROCESS		
External Signal -Waveform input	Signal input for output voltage waveform programming by external analog reference via BNC type. Between the sync signal and the output wave will be 0.5ms time difference		
ENVIRONMENTAL			
Operating Temperature	0°C to 40°C		
Storage Temperature	-40°C to 85°C		
Altitude	2000m		
Relative Humidity	5%~95%, non-condensing		
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current, 100ppm/°C at Frequency		
MECHANICAL			
Dimensions(W*H*D)	483.0*177.0*520.0 mm/19.0*7.0*20.5 inch		
Package Dimensions (W*H*D)	597.0*321.0*694.0 mm/23.5*12.6*27.3 inch		
Unit Net Weight	28.8kg/63.5lbs		
Accessories Weight	0.4kg/0.9lbs		
Net Weight	31.8kg/70.1lbs		
REGULATORY COMPLIANCE			
EMC	CE marked for EMC Directive 2014/ 30/EU /EN61326-1: 2013 Class A for emissions and immunity standard as required for EU CE Mark. FCC Verification of conformity for CFR 47 Part 15 of the FCC Rules.		
Safety	CE marked for LVD Directive 2014/ 35/EU /EN61010-1-third edition as required for EU CE Mark.		
CE Mark	Installation Overvoltage Category II, Pollution Degree 2, Class II equipment, indoor use only.		
UL Mark	CSA NRTL certified for US and Canada to CAN/CSA-22.2 No.61010-1-12, UL 61010-1 Third Edition.		
Isolation Voltage	3000VAC, input to output, 1500VAC, input to chassis		
RoHS	Meet to EU Directive 2011/65/EU for restriction of hazardous substances in Electrical and Electronic Equipment		

* Warranty: 1 (one) year, or refer to relevant contract terms

