

SP300VAC2000W



Specification

MODEL	SP300VAC2000W Advanced	SP300VAC2000W Professional
<b>INPUT</b>		
Voltage	190~265VAC	
Frequency	47~63Hz	
Phase	1 Phase, 2Wire+Groud	
Max. Current	14A	
Power Factor at 220VAC Input , Full Load	≥0.99 Active PFC	
Efficiency	>87% (Peak) >86% at 220VAC,50Hz input/220VAC,50Hz output,Full Load	
<b>OUTPUT</b>		
AC Power	2000VA	
Max. Current (r.m.s)	0~150V(L)	16A
	0~300V(H)	8A
Max. Current (Peak)	0~150V(L)	80A
	0~300V(H)	40A
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)	≤5	
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	SP300VAC2000W Advanced	SP300VAC2000W Professional	
Voltage(DC)	Range	0~424VDC	
	Resolution	0.1V	
	Accuracy	0.2% of setting +0.2%F.S.	
	Max.Power	2000W	
	Max Current (L/H Range)	L	11.3A
		H	5.65A
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	
Programmable Output Impedance	Range	Not Support	
		0Ω +200μH~1Ω +1mH	
Harmonic & Inter-harmonics Simulation	Range	Not Support	
		2400Hz	
<b>MEASUREMENT</b>			
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	
Current (r.m.s)	Range	H 0.15A~16A	
		M -	
		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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Current (Peak)	Range	0A~81.5A
	Resolution	0.01A
	Accuracy	H/M 0.4%+0.6%F.S. L/mA 0.4%+1.0%F.S.
Power	Range	0~2040W
	Resolution	0.1W
	Accuracy	0.4% of setting +0.3%F.S. at PF>0.2, Voltage >5V
Power Apparent (VA)	Range	0~2040VA
	Resolution	0.1VA
	Accuracy	Voltage*Irms, Calculated value
Power Resistive (VAR)	Range	0~2040VAR
	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
<b>EXTRA FUNCTION</b>		
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)	
<b>GENERAL</b>		
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(Optional)	
<b>REMOTE CONTROL INPUT/OUTPUT SIGNAL CHARACTERISTICS(OPTION)</b>		
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	
<b>ENVIRONMENTAL</b>		
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	
<b>MECHANICAL</b>		
Dimensions(W*H*D)	483.0*133.0*520.0 mm/19.0*5.2*20.5 inch	
Package Dimensions (W*H*D)	597.0*276.0*694.0 mm/23.5*10.9*27.3 inch	
Unit Net Weight	21.2kg/46.7lbs	
Accessories Weight	0.4kg/0.9lbs	
Net Weight	24.2kg/53.4lbs	
<b>REGULATORY COMPLIANCE</b>		
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

