SP300VAC4000W-5000W

Specification

MODEL		SP300VAC4000W Advanced	SP300VAC4000W Professional	SP300VAC5000W Advanced	SP300VAC5000W Professional
INPUT					
Voltage		190~265VAC			
Frequency		47~63Hz			
Phase		1 Phase, 2Wire+Groud			
Max.Current		25A		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		4000VA		5000VA	
Max.Current (r.m.s)	0~150V(L)	32A		46A	
	0~300V(H)	16A		23A	
Max.Current (Peak)	0~150V(L)	160A		184A	
	0~300V(H)	80A		92A	
Phase	1 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		⩽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°			
	Resolution	1°			
	Accuracy	±1° @45~65Hz			

Specification

MODEL		SP300VAC4000W Advanced	SP300VAC4000W Professional	SP300VAC5000W Advanced	SP300VAC5000W Professional
Voltage(DC)	Range	0~424VDC			
	Resolution	0.1V			
	Accuracy	0.2% of setting +0.2%F.S.			
	Max.Power	4000W		5000W	
	Max.Current (L/H Range)	L 22.6A		L 32.6A	
		H 11.3A		H 16.3A	
	Ripple& Noise(r.m.s)	L <700mVrms @Bandwidth 20Hz to 1MHz			
		H <1100mVrms @Bandwidth 20Hz to 1MHz			
	Ripple& Noise(Peak)	<4000mVp-p @Bandwidth 20Hz to 1MHz			
Current OC Fold Mode	Resolution	0.01A			
	Accuracy	2.0% of setting +0.1%F.S.			
	Response Time	<1000ms			
Frequency	Range	15~1000Hz Full Range ADJ	15~1200Hz Full Range ADJ	15~1000Hz Full Range ADJ	15~1200Hz Full Range ADJ
	Resolution	0.1Hz at 15.0~99.9Hz, 1Hz at 100~1000Hz	0.1Hz at 15.0~99.9Hz, 1Hz at 100~1000Hz, 5Hz at 1001~1200Hz	0.1Hz at 15.0~99.9Hz, 1Hz at 100~1000Hz	0.1Hz at 15.0~99.9Hz, 1Hz at 100~1000Hz, 5Hz at 1001~1200Hz
	Accuracy	0.03% of setting			
Programmable Output Impedance	Range	N/A	0Ω +200μH~1Ω +1mH	N/A	0Ω +200μH~1Ω +1mH
Harmonic & Inter-harmonics Simulation	Range	N/A	2400Hz	N/A	2400Hz
Voltage	Range	AC 0~300VAC			
		DC 0~424VDC			
	Resolution	0.1V			
	Accuracy	0.2% of setting +0.2%F.S.			
Frequency	Range	0~1000Hz	0~1200Hz	0~1000Hz	0~1200Hz
	Resolution	0.1Hz at 15.0~99.9Hz, 1Hz at 100~1000Hz	0.1Hz at 15.0~99.9Hz, 1Hz at 100~1000Hz, 5Hz at 1001~1200Hz	0.1Hz at 15.0~99.9Hz, 1Hz at 100~1000Hz	0.1Hz at 15.0~99.9Hz, 1Hz at 100~1000Hz, 5Hz at 1001~1200Hz
	Accuracy	0.03% of setting			
Current (r.m.s)	Range	0.05A~32.6A		0.05A~47A	
	Resolution	0.01A			
	Accuracy	0.4%+0.3%F.S.			

OCP
OVP
OPP
℃
SHORT
RS232
RS485
USB
LAN
GPIB
CE
cULus
FC

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MODEL		SP300VAC4000W Advanced	SP300VAC4000W Professional	SP300VAC5000W Advanced	SP300VAC5000W Professional
Current (Peak)	Range	0.05A~163A		0.05A~188A	
	Resolution	0.01A			
	Accuracy	0.4%+0.6%F.S.			
Power	Range	0~4080W		0~5100W	
	Resolution	0.1W			
	Accuracy	0.4% of setting +0.3%F.S. at PF>0.2, Voltage >5V			
Power Apparent (VA)	Range	0~4080VA		0~5100VA	
	Resolution	0.1VA			
	Accuracy	Voltage*Irms, Calculated value			
Power Resistive (VAR)	Range	0~4080VAR		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	N/A	2~40 orders	N/A	2~40 orders
Extra Function					
Slew Rate	Range	Voltage 0.001~50.000V/ms and Disable			
		Frequency 0.001~50.000Hz/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/P&Parallel, Multiphase Link Card)			
Series Output for 1 Phase		Yes, 2 Units Max. (Option: Remote I/P&Parallel, Multiphase Link Card)			
Link Output for 3 Phase		Yes (Option: Remote I/P&Parallel, Multiphase Link Card)			
GENERAL					
Graphic Display		5.6" Color touch LCD			
Operation Key Feature		Soft key, Numberic key, Rotary Knob, Support USB disk			

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MODEL	SP300VAC4000W Advanced	SP300VAC4000W Professional	SP300VAC5000W Advanced	SP300VAC5000W Professional
Rack mount Handles	Yes			
FAN	Temperature Control			
Protection Circuits	OCP, OVP, OPP, OTP, RCP, PRI_UVP, PRI_OVP, PRI_OTP, PRI_OCP, USB_OCP			
Interface	Standard USB, RS485, RS232&LAN, Option GPIB interface			
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, 200ppm/°C at Current			
Mechanical				
Dimensions(W*H*D)	482.6*177.3*518.0 mm			
Package Dimensions (W*H*D)	597.0*321.0*694.0 mm			
Unit Net Weight	27.8kg			
Accessories Weight	0.38kg			
Net Weight	30.88kg			
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			

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