SP300VAC4000W

Specification

MODEL		SP300VAC4000W Advanced	SP300VAC4000W Professional
INPUT			
Voltage		190~265VAC	
Frequency		47~63Hz	
Phase		1 Phase, 2Wire+Groud	
Max.Current		25A	
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	
Max.Current (r.m.s)	0~150V(L)	32A	
	0~300V(H)	16A	
Max.Current (Peak)	0~150V(L)	160A	
	0~300V(H)	80A	
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	

Specification

MODEL		SP300VAC4000W Advanced	SP300VAC4000W Professional
Voltage(DC)	Range	0~424VDC	
	Resolution	0.1V	
	Accuracy	0.2% of setting +0.2%F.S.	
	Max.Power	4000W	
	Max.Current (L/H Range)	L 22.6A	
		H 11.3A	
	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	<1400ms	
Frequency	Range	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
	Accuracy	0.03% of setting	
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	15~1200Hz
	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
	Accuracy	0.1% of setting	
Current (r.m.s)	Range	H 0.2A~32A	
		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.	

OCP
OVP
OPP
°C
SHORT
RS232
RS485
LAN
GPIB

SP300VAC4000W

Specification

MODEL		SP300VAC4000W Advanced	SP300VAC4000W Professional
Current (Peak)	Range	0.05A~163A	
	Resolution	0.01A	
	Accuracy	H/M 0.4%+0.6%F.S.	
		L/mA 0.4%+1.0%F.S.	
Power	Range	0~4080W	
	Resolution	0.1W	
	Accuracy	0.4% of setting +0.3%F.S. at PF>0.2, Voltage >5V	
Power Apparent (VA)	Range	0~4080VA	
	Resolution	0.1VA	
	Accuracy	Voltage*Irms, Calculated value	
Power Resistive (VAR)	Range	0~4080VAR	
	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, Numberic key, Rotary Knob, Support USB disk	

Specification

MODEL	SP300VAC4000W Advanced	SP300VAC4000W 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	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

OCP OVP OPP °C SHORT RS232 RS485 LAN GPIB CE C US