

Three Phase AC Source System

APM Three phase AC source system is a single 3-phase output programmable AC power supply which provides with high power density. With high speed DSP+CPLD control, high frequency PWM technology, active PFC design, It is able to provide not only stable DC/AC output power,but also 3-phase / 1-phase output. It is featured with high power density, high reliability and high precision, meanwhile it possesses operation interface of touch screen and keys manually. It is able to analog output normal or abnormal power input for electrical device to meet test requirements, which is applicable to electric, lighting, aviation sectors, etc. It could be applied to enterprise' s production test as well.

This series is applicable to multiple sectors such as electric, lighting and aviation sectors and it could be applied to enterprise's production test as well.



Features

- 5.6" large touch color screen, possess complete functions and easy to operate.
- Support for USB data import/export and screen snap from front panel.
- AC+DC mixed or independent output mode for voltage DC offset simulation.
- Capable of setting voltage and current output restriction, support for constant current output mode.
- Capable of setting output slope of voltage and frequency.
- Capable of setting ON/OFF phase angle.
- With reverse current protection to avoid current flowing backward.
- Built-in power meter, which is capable of measuring 5 electrical parameters per phase, including voltage, current, power, etc.
- Support mA current measurement function.



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MODEL		SPS300VAC5400W	SPS300VAC8100W	SPS300VAC10800W	SPS300VAC13500V		
INPUT							
Voltage		190~265VAC					
Frequency		47~63Hz					
Phase		3 Phase,4Wire+Groud/Y Connect					
Max.Current		42A	60A	75A	90A		
Power Factor at 220VAC Input ,Full Load		≥0.99 Active PFC	≥0.98 Active PFC	≥0.99 Active PFC	≥0.99 Active PFC		
Efficiency		>87% (Peak) >86% at 220VAC,50Hz input/230VAC,50Hz output,Full Load	>86% (Peak) >85% at 220VAC,50Hz input/230VAC,50Hz output,Full Load	>87% (Peak) >86% at 220VAC,50Hz input/230VAC,50Hz output,Full Load	>87% (Peak) >86% at 220VAC,50Hz input/230VAC,50Hz output,Full Load		
3-Phase Outp	ut Mode						
AC Power(Per Phase)		1800VA	2700VA	3600VA	4500VA		
AC Power(Tot	al)	5400VA	8100VA	10800VA	13500VA		
Max.Current	0~150V(L)	16A	27.6A	32A	46A		
(r.m.s)	0~300V(H)	8A	13.8A	16A	23A		
Max.Current	0~150V(L)	80A	165.6A	160A	184A		
(Peak)	0~300V(H)	40A	82.8A	80A	92A		
Parallel Outp	ut Mode						
Max.Current	0~150V(L)	48A	82.8A	96A	138A		
(r.m.s)	0~300V(H)	24A	41.4A	48A	69A		
Max.Current	0~150V(L)	240A	496.8A	480A	552A		
(Peak)	0~300V(H)	120A	248.4A	240A	276A		
Phase		1 Phase					
OUTNPUT							
Total Harmonic Distortion (THD)		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					
Crest Factor(0	CE)	≤ 5	≤6	≤ 5	≤ 4		
		± 0.2%F.S. (Resistive Load)			4		
Load Regulation		± 0.5%F.S. (Resistive Load) at >100Hz					
Line Regulation		±0.1V					
Voltage(AC)	Range	0~300VAC, 150V/300V/Auto Mode					
(L-N)	Resolution	0.1V					
	Accuracy	0.2% of setting +0.4%F.S at Voltage>3V					
Phase Angle	Range	0~359.9°					
(Starting /Ending)	Resolution	0.1°					
5,	Accuracy	±1° @45~65Hz					
Voltage(DC)	Range	0~424VDC					
	Resolution	0.1V					
	Accuracy	0.2% of setting +0.4%F.S at Voltage>3V					
	DC Power (Per Phase)	1800W	2700W	3600W	4500W		
	Max.Current (Per Phase)	L 11.3A	L 19.6A	L 22.6A	L 32.6A		
		H 5.65A	H 9.8A	H 11.3A	H 16.3A		
	DC Power (Total)	5400W	8100W	10800W	13500W		
	Max.Current (Total)	L 33.9A	L 58.8A	L 67.8A	L 97.8A		
		H 16.95A	H 29.4A	H 33.9A	H 48.9A		
	,	11 10.55/1	11 25.47	11 33.3A	11 40.071		





MODEL		SPS300VAC5400W	SPS300VAC8100W	SPS300VAC10800W	SPS300VAC13500W		
	Resolution	0.1A					
Current OC Fold Mode	Accuracy	2.0% of setting +1.0%F.S.					
	Response Time	<1400ms					
	Range	15~1000Hz					
Frequency	Resolution	0.1Hz(15.0~99.9Hz) ,1Hz(100~1000Hz)					
	Accuracy	0.03% of setting					
Programmable Output Impedance		Not Support					
Harmonic & Inter- harmonics Simulation		Not Support					
MEASUREMI	ENT						
	Range	AC 0~300VAC					
Voltage		DC 0~424VDC					
(Per Phase)	Resolution	0.1V					
	Accuracy	0.2% of setting +0.4%F.S.					
	Range	15~1000Hz					
Frequency (Per Phase)	Resolution	0.1Hz(15.0~99.9Hz) ,1Hz(100~1000Hz)					
(1 01 1 11000)	Accuracy	0.1% of setting					
	Range	H 0.15A~20A	H 0.3A~27.6A	H 0.3A~32A	H 0.3A~46A		
		м -	M 0.2A~20A	M 0.2A~20A	M 0.2A~20A		
Current*		L 0.1A~5A	L 0.1A~5A	L 0.1A~5A	L 0.1A~5A		
(r.m.s) (Per Phase)		mA 0.02A~1.5A	mA 0.02A~1.5A	mA 0.02A~1.5A	mA 0.02A~1.5A		
	Resolution	0.01A					
	Accuracy	0.4%+1.0%F.S.					
*	Range	0A~81.5A	0A~168.6A	0A~163A	0A~188A		
Current (Peak)	Resolution	0.01A					
(Per Phase)	Accuracy	0.4%+1.5%F.S.					
Power (Per Phase)	Range	0~2040W	0~3060W	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) (Per Phase)	Range	0~2040VA	0~3060VA	0~4080VA	0~5100VA		
	Resolution	0.1VA					
	Accuracy	Voltage*Irms, Calculated value					
Power Resistive (VAR) (Per Phase)	Range	0~2040VAR	0~3060VAR	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	Not Support					
EXTRA FUNC	TION						
Slew Rate		AC Voltage 0.001~1200.000V/ms and Disable					
	Range	DC Voltage 0.001~1000.000V/ms and Disable					
		Frequency 0.001~1600.000Hz/ms and Disable					





MODEL	SPS300VAC5400W	SPS300VAC8100W	SPS300VAC10800W	SPS300VAC13500W			
Remote Sense Range	5V(rms), Max. Total power less than rated power						
Calibration	Firmware-based calibration through the digital interface or front panel display						
Test Function	Not Support						
Graphic Display	5.6" Color touch LCD						
Operation Key Feature	Soft key, Numberic key, Rotary Knob, Support USB disk						
Rack mount Handles	Yes	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)						
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)	560.0*945.0*700.0 mm						
Package Dimensions (W*H*D)	680.0*1120.0*860.0 mm						
Unit Net Weight	121.0kg	144.0kg	144.0kg	144.0kg			
Accessories Weight	0.4kg						
Net Weight	185.0kg	207.0kg	207.0kg	207.0kg			
Regulatory Compliance							
CE Mark Installation Overvltage Category II; Class II equipment; indoor use only.							

- * Note:The tolerance will change slightly in high frequency condition.
- * Warranty 1 (one) year, or refer to relevant terms.

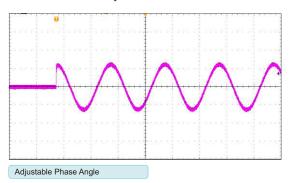


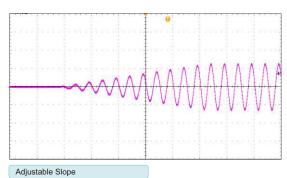


Basic Functions

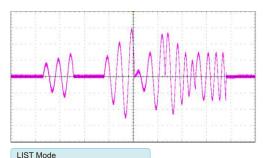
Adjustable Phase Angle/Slope

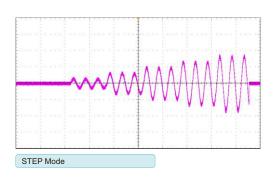
Adjustable phase angle, applicable to verification test of ON/OFF inrush current testing.adjustable slope, applicable to start inductive or capacitive load with large capacity to avoid circuit break caused by protection that triggered by high current when instantaneously start the device.

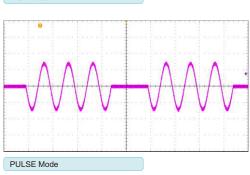




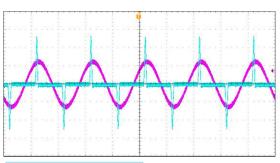
Output Simulation Sequence and Disturbance Simulation
Provide powerful function to simulate power line disturbance.
Apply LIST mode to change output by recalling inner sequence file;
Apply STEP mode to change output value;
Apply PULSE mode to program special impulse voltage waveform.
Functions above are convenient for user to apply in test condition such as cycle dropout, transient spike and brown out, etc.







High Output Current Crest Factor
 The surge current could reach 5-6 times of the rated current, especially suitable for inrush current testing.



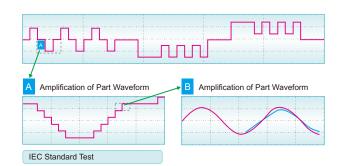
High Output Current Crest Factor





Advanced Functions

IEC Standard Test
 Built-in IEC Standard Test and could be recalled directly.



3-Phase Operation and Parallel Mode
 Support 3-phase operation, 3 units in parallel.

