



Efficiency, Stability, Reliable, Precision

Linked 3-Phase AC System

» Product specification sheet



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Linked 3-Phase AC System

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Selection List :

Model	Size	Voltage	Power	Output Model	Corresponding page
SPS300VAC1800W	9U	150V/300V	1800W	1-Phase/3-Phase	P01
SPS300VAC3000W	9U	150V/300V	3000W	1-Phase/3-Phase	P01
SPS300VAC4500W	9U	150V/300V	4500W	1-Phase/3-Phase	P01
SPS300VAC6000W	17U	150V/300V	6000W	1-Phase/3-Phase	P03
SPS300VAC9000W	17U	150V/300V	9000W	1-Phase/3-Phase	P03
SPS300VAC12000W	17U	150V/300V	12000W	1-Phase/3-Phase	P03
SPS300VAC15000W	17U	150V/300V	15000W	1-Phase/3-Phase	P03

Linked 3-Phase AC System

MODEL		SPS300VAC1800W		SPS300VAC3000W		SPS300VAC4500W	
Input							
Voltage		90~265VAC		90~265VAC		100~265VAC	
Frequency		47~63Hz					
Phase		3 Phase, 4Wire+Groud/Y Connect					
Max.Current		30A		45A		57A	
Power Factor at 220VAC Input, Full Load		≥ 0.96 Active PFC		≥ 0.98 Active PFC		≥ 0.98 Active PFC	
Efficiency		>81% (Peak) >80% at 220VAC, 50Hz input/220VAC, 50Hz		>85.5% (Peak) >85% at 220VAC, 50Hz input/220VAC, 50Hz		>87.5% (Peak) >87% at 220VAC, 50Hz input/220VAC, 50Hz	
3-Phase Output Mode(Per Phase)							
AC Power(Total)		1800VA		3000VA		4500VA	
AC Power(Per Phase)		600VA		1000VA		1500VA	
Max.Current (r.m.s)	0~150V(L)	5.6A		9.2A		13.8A	
	0~300V(H)	2.8A		4.6A		6.9A	
Max.Current (Peak)	0~150V(L)	32.4A		55.2A		82.8A	
	0~300V(H)	16.2A		27.6A		41.4A	
1-Phase Output Mode							
AC Power(Total) ¹⁾		1620VA		2700VA		4050VA	
Max.Current (r.m.s)	0~150V(L)	15.12A		24.84A		37.26A	
	0~300V(H)	7.56A		12.42A		18.62A	
Max.Current (Peak)	0~150V(L)	87.48A		149A		223.56A	
	0~300V(H)	43.47A		74.52A		111.78A	
DC Power (Per Phase)		1620W		2700W		4050W	
Max.Current (Total)	L 10.69A		L 17.55A		L 26.35A		
	H 5.1A		H 8.9A		H 13.18A		
3-Phase Output Mode(Per 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 100~140VACat Low Range or the 160~280VAC at High Rang;					
Crest Factor(CF)		≤ 6					
Load Regulation		± 0.2%F.S. (Resistive Load) at 15~100Hz ± 0.5%F.S. (Resistive Load) at >100Hz					
Line Regulation		± 0.1V					
Voltage(AC) (L-N)	Range	0~300VAC, 150V/300V/Auto Mode					
	Resolution	0.1V					
	Accuracy	0.2% of setting +0.4%F.S at Voltage>3V					
Phase Angle (Starting /Ending)	Range	0~359.9°					
	Resolution	0.1°					
	Accuracy	± 1° @45~65Hz					
	Range	0~424VDC					
Voltage(DC)	Resolution	0.1V					
	Accuracy	0.3% of setting +0.4%F.S at Voltage>3V					
	DC Power	600W		1000W		1500W	
	Max.Current	L 3.96A H 1.89A		L 6.5A H 3.3A		L 9.76A H 4.88A	
	Ripple&Noise (Peak)	L <700mVrms @Bandwidth 20Hz to 1MHz H <1100mVrms @Bandwidth 20Hz to 1MHz					
	Ripple&Noise (r.m.s)	<4000mVp-p @Bandwidth 20Hz to 1MHz					
	Current OC Fold Mode	Resolution	0.01A				
Accuracy		0.5% of setting +1.0%F.S.					
Response Time		<1400ms					
Frequency	Range	15~1000Hz					
	Resolution	0.1Hz(15.0~99.9Hz), 1Hz(100~1000Hz)					
	Accuracy	0.03% of setting					
Programmable Output Impedance		Not Support					
Harmonic & Interharmonics Simulation		Not Support					
Power Meter Function(Per Phase)							
Voltage	Range	AC 0~300VAC					
		DC 0~424VDC					
	Resolution	0.1V					
	Accuracy	0.2% of setting +0.4%F.S. (Peak: 0.6% of setting +1%F.S.)					

MODEL		SPS300VAC1800W	SPS300VAC3000W	SPS300VAC4500W
Frequency	Range	15~1000Hz		
	Resolution	0.1Hz(15.0~99.9Hz),1Hz(100~1000Hz)		
	Accuracy	0.1% of setting		
Current ^[2] (r.m.s)	Range	H 0.15A~5.6A	H 0.3A~9.2A	H 0.3A~13.8A
		L 0.1A~3A	L 0.1A~3A	L 0.1A~3A
	Resolution	0.01A		
	Accuracy	0.4%+1.0%F.S.		
Current ^[2] (Peak)	Range	0A~32.4A	0A~55.2A	0A~82.8A
	Resolution	0.01A		
	Accuracy	0.4%+1.5%F.S.		
Power	Range	0~612W	0~1020W	0~1530W
	Resolution	0.1W		
	Accuracy	0.4% of setting +0.3%F.S. at PF>0.2, Voltage >5V		
Power Apparent(VA)	Range	0~612VA	0~1020VA	0~1530VA
	Resolution	0.1VA		
	Accuracy	Voltage*I _{rms} , Calculated value		
Power Resistive (VAR)	Range	0~612VAR	0~1020VAR	0~1530VAR
	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 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		
Calibration		Firmware-based calibration through the digital interface or front panel display		
Test Function		Not Support		
Graphic Display		4.3" Color touch LCD		
Operation Key Feature		Soft key, Numeric key, Rotary Knob, USB port for transfer and upgrading firmware		
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(Optional); GPIB(Optional)		
Environmental				
Operating Temperature		0°C~40°C		
Storage Temperature		-40°C~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(WxHxD)		540.0x400.0x640.0 mm		
Package Dimensions (WxHxD)		660.0x710.0x760.0 mm		
Unit Weight		88.7kg	88.7kg	88.7kg
Shipping Weight		108.7kg	108.7kg	108.7kg
Regulatory Compliance				
CE Mark		Installation Overvoltage Category II;Class II equipment;indoor use only.		

[1] In single phase mode, the current shall be reduced to 90% for the consideration of current sharing.

[2] The tolerance will change slightly in high frequency condition;

All specifications are subject to change without notice.

Linked 3-Phase AC System

MODEL		SPS300VAC6000W	SPS300VAC9000W	SPS300VAC12000W	SPS300VAC15000W
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 Output Mode(Per Phase)					
AC Power(Total)		6000VA	9000VA	12000VA	15000VA
AC Power(Per Phase)		2000VA	3000VA	4000VA	5000VA
Max.Current (r.m.s)	0~150V(L)	16A	27.6A	32A	46A
	0~300V(H)	8A	13.8A	16A	23A
Max.Current (Peak)	0~150V(L)	80A	165.6A	160A	184A
	0~300V(H)	40A	82.8A	80A	92A
1-Phase Output Mode					
AC Power(Total) ¹⁾		5400VA	8100VA	10800VA	13500VA
Max.Current (r.m.s)	0~150V(L)	43.2A	74.52A	86.4A	124.2A
	0~300V(H)	21.6A	37.26A	43.2A	62.1A
Max.Current (Peak)	0~150V(L)	216A	447.12A	432A	496.8A
	0~300V(H)	108A	223.56A	216A	248.4A
DC Power (Per Phase)		5400W	8100W	10800W	13500W
Max.Current (Total)	L 30.51A	L 30.51A	L 52.92A	L 61A	L 88A
	H 15.26A	H 15.26A	H 26.46A	H 30.51A	H 44A
3-Phase Output Mode(Per 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 100~140VACat Low Range or the 160~280VAC at High Rang;			
Crest Factor(CF)		≤5	≤6	≤5	≤4
Load Regulation		± 0.2%F.S. (Resistive Load) at 15~100Hz ± 0.5%F.S. (Resistive Load) at >100Hz			
Line Regulation		± 0.1V			
Voltage(AC) (L-N)	Range	0~300VAC, 150V/300V/Auto Mode			
	Resolution	0.1V			
	Accuracy	0.2% of setting +0.4%F.S at Voltage>3V			
Phase Angle (Starting /Ending)	Range	0~359.9°			
	Resolution	0.1°			
	Accuracy	± 1° @45~65Hz			
	Range	0~424VDC			
	Resolution	0.1V			
	Accuracy	0.3% of setting +0.4%F.S at Voltage>3V			
Voltage(DC)	DC Power	2000W	3000W	4000W	5000W
	Max.Current	L 11.3A H 5.65A	L 19.6A H 9.8A	L 22.6A H 11.3A	L 32.6A H 16.3A
	Ripple&Noise (Peak)	L <700mVrms @Bandwidth 20Hz to 1MHz H <1100mVrms @Bandwidth 20Hz to 1MHz			
	Ripple&Noise (r.m.s)	<4000mVp-p @Bandwidth 20Hz to 1MHz			
	Resolution	0.01A			
Current CC Fold Mode	Accuracy	2.0% of setting +1.0%F.S.			
	Response Time	<1400ms			
Frequency	Range	15~1000Hz			
	Resolution	0.1Hz(15.0~99.9Hz), 1Hz(100~1000Hz)			
	Accuracy	0.03% of setting			
Programmable Output Impedance		Not Support			
Harmonic & Interharmonics Simulation		Not Support			
Power Meter Function(Per Phase)					
Voltage	Range	AC 0~300VAC DC 0~424VDC			
	Resolution	0.1V			
	Accuracy	0.2% of setting +0.4%F.S. (Peak: 0.6% of setting +1%F.S.)			

MODEL		SPS300VAC6000W	SPS300VAC9000W	SPS300VAC12000W	SPS300VAC15000W
Frequency	Range	15~1000Hz			
	Resolution	0.1Hz(15.0~99.9Hz),1Hz(100~1000Hz)			
	Accuracy	0.1% of setting			
Current ^[2] (r.m.s)	Range	H 0.15A~20A	H 0.3A~27.6A	H 0.3A~32A	H 0.3A~46A
		M -	M 0.2A~20A	M 0.2A~20A	M 0.2A~20A
		L 0.1A~5A	L 0.1A~5A	L 0.1A~5A	L 0.1A~5A
		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.				
Current ^[2] (Peak)	Range	0A~81.5A	0A~168.6A	0A~163A	0A~188A
	Resolution	0.01A			
	Accuracy	0.4%+1.5%F.S.			
Power	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)	Range	0~2040VA	0~3060VA	0~4080VA	0~5100VA
	Resolution	0.1VA			
	Accuracy	Voltage*I _{rms} , Calculated value			
Power Resistive (VAR)	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 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			
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, Numeric key, Rotary Knob, USB port for transfer and upgrading firmware			
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)			
Environmental					
Operating Temperature		0°C~40°C			
Storage Temperature		-40°C~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(WxHxD)		560.0x754.0x700.0 mm			
Package Dimensions (WxHxD)		680.0x1146.0x820.0 mm			
Unit Weight		134.0kg	157.0kg	157.0kg	157.0kg
Shipping Weight		173.0kg	195.0kg	195.0kg	195.0kg
Regulatory Compliance					
CE Mark		Installation Overvoltage Category II;Class II equipment;indoor use only.			

[1] In single phase mode, the current shall be reduced to 90% for the consideration of current sharing.

[2] The tolerance will change slightly in high frequency condition;

All specifications are subject to change without notice.

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