

SPST Series Linked 3-Phase AC Power Supply System

» Product specification sheet



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SPST Series Linked 3-Phase AC Power Supply System

Contents

SPST300VAC1800W-2-9	01
SPST300VAC3000W-2-9	01
SPST300VAC4500W-2-9	01
SPST300VAC6000W-3-17	03
SPST300VAC9000W-4-17	03
SPST300VAC12000W-4-17	03
SPST300VAC15000W-4-17	03

Selection List :

Model	Size	Voltage	Power	Output Model	Corresponding page
SPST300VAC1800W-2-9	9U	150V/300V	1800W	1-Phase/3-Phase	P01
SPST300VAC3000W-2-9	9U	150V/300V	3000W	1-Phase/3-Phase	P01
SPST300VAC4500W-2-9	9U	150V/300V	4500W	1-Phase/3-Phase	P01
SPST300VAC6000W-3-17	17U	150V/300V	6000W	1-Phase/3-Phase	P03
SPST300VAC9000W-4-17	17U	150V/300V	9000W	1-Phase/3-Phase	P03
SPST300VAC12000W-4-17	17U	150V/300V	12000W	1-Phase/3-Phase	P03
SPST300VAC15000W-4-17	17U	150V/300V	15000W	1-Phase/3-Phase	P03

*This formula is the standard cabinet for SP-300 series 2U/3U/4U model. It is available to select cabinet with different specification according to exact situation. Detail please consults our area manager.

SPST Series Linked 3-Phase AC Power Supply System

MODEL		SPST300VAC1800W-2-9	SPST300VAC3000W-2-9	SPST300VAC4500W-2-9
Frequency	Range	15~1000Hz		
	Resolution	0.1Hz(15.0~99.9Hz),1Hz(100~1000Hz)		
	Accuracy	0.1% of setting		
Current ^[1] (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*Irms, 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_LUVp, 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			
Shipping Weight	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.

SPST Series Linked 3-Phase AC Power Supply System

MODEL	SPST300VAC6000W-3-17	SPST300VAC9000W-4-17	SPST300VAC12000W-4-17	SPST300VAC15000W-4-17	
Input					
Voltage	190~265VAC				
Frequency	47~63Hz				
Phase	3 Phase, 4Wire+Ground/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 0~300V(H) 8A	27.6A 13.8A	32A 16A	46A 23A	
Max. Current (Peak)	0~150V(L) 80A 0~300V(H) 40A	165.6A 82.8A	160A 80A	184A 92A	
1-Phase Output Mode					
AC Power(Total) ^[1]	5400VA	8100VA	10800VA	13500VA	
Max. Current (r.m.s)	0~150V(L) 43.2A 0~300V(H) 21.6A	74.52A 37.26A	86.4A 43.2A	124.2A 62.1A	
Max. Current (Peak)	0~150V(L) 216A 0~300V(H) 108A	447.12A 223.56A	432A 216A	496.8A 248.4A	
DC Power (Per Phase)	5400W	8100W	10800W	13500W	
Max. Current (Total)	L 30.51A H 15.26A	L 52.92A H 26.46A	L 61A H 30.51A	L 88A 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 100~140VAC at Low Range or the 160~280VAC at High Range;				
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			
Voltage(DC)	Range	0~424VDC			
	Resolution	0.1V			
	Accuracy	0.3% of setting +0.4%F.S at Voltage>3V			
	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				
Current CC Fold Mode	Resolution	0.01A			
	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.)			

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MODEL		SPST300VAC6000W-3-17	SPST300VAC9000W-4-17	SPST300VAC12000W-4-17	SPST300VAC15000W-4-17
Frequency	Range	15~1000Hz			
	Resolution	0.1Hz(15.0~99.9Hz),1Hz(100~1000Hz)			
	Accuracy	0.1% of setting			
Current ^[1] (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, PRL_UVP, PRL_OVP, PRL_OTP, PRL_OCP, USB_OCP				
Interface	USB, RS485, RS232, LAN(Standard); 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)	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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