SPS5000X Series wide range programmable Switching DC Power Supply datasheet





Datasheet



SIGLENT TECHNOLOGIES CO.,LTD



Product Overview

The SPS5000X-Series is a programmable Switching DC Power supply series that provides a wide range of output power using single-channel and multi-channel output configurations coupled with constant power capability. The series of power supplies includes sixteen models with voltages to 160 VDC and power to 1080 W. The SPS5000X supplies can be connected in series (2 units) or in parallel (3 units) to meet the requirements of 0~320V and 0~270A, with a maximum combined power of 3240W.

The SPS5000X Series has a high brightness 2.4 inch OLED display, a user-friendly human-computer interface that enable easy control and performance monitoring. The SPS5000X provides high resolution voltage and current settings, adjustable slew rates, list sequence programming from the front panel or over the standard LAN/ USB interface, analog control, and over-voltage, current, power, and temperature protection. These features make the series an ideal choice for a variety of demanding markets, including Commercial Industrial, Education, Energy and Power Generation, laboratory general testing, the LED lighting industry, and automotive electronics.

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Main Features

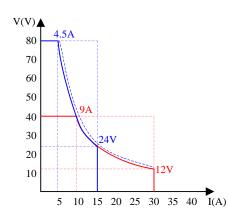
- Rated Output Voltage: 40V, 50V, 80V, 160V
- Rated Output Power: 180W, 360W, 720W, 1080W
- Wide range of output voltage and current, high efficiency power supply
- CV, CC priority mode selection, better protection of equipment under test
- Load transient recovery time (Load change from 50~100%) <1ms</p>
- Adjustable slew rate of output voltage and current
- Setting and readback resolution: 1 mV, 1 mA
- User enabled internal output discharge circuit to accelerate the down programming of the output voltage
- Remote Voltage Sensing
- List function up to 50 steps; can be created from the front panel or by importing list sequence files from a USB memory device
- External analog voltage and resistor control of voltage or current output
- External voltage and current monitoring output
- 2.4-inch OLED high brightness liquid crystal display, 170-degree viewing angle
- Standard Interface: USB, LAN, Analog Control Interface
- Optional Interface: USB-GPIB module
- 4 1/2, 1/3, 1/6 rack mount size
- Embedded Web Server offers remote control through a web browser without the need for the driver or software

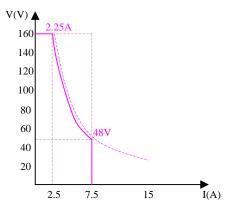


Design Features

Constant Output Power

In constant output power mode, the voltage and current range is switched automatically to maximize the voltage and current without sacrificing the supply's output power. This mode enables the supply to provide a higher output voltage at lower current and a higher output current at lower voltage. Compared to the traditional rectangular output range of most supplies, the SPS5000X series power supply provides a wider voltage and current output range, which greatly increases the utilization of the power supply.





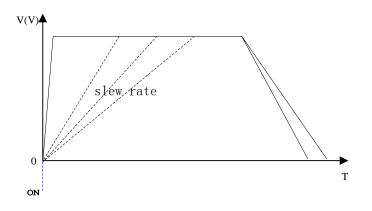
80V 15A/ 40V 30A Output Operating Area

160V 7.5A Output Operating Area

Adjustable Output Voltage, Current up/down Slew Rate

The SPS5000X series supports custom setting of the rise/fall slew rate of voltage/current to verify the performance of the object under test as the voltage/current changes. This feature can effectively prevent the damage caused by inrush current to the DUT in applications such as the testing of capacitive current absorbing devices.





Output voltage, current up/down slew rate

CV/CC Priority Mode

When the SPS5000X series power supply is set to CC priority mode, at the power output-on stage, it is able to operate under CC priority to limit the inrush current spike and overshoot voltage effectively when the power output is turned on.

In CV priority mode, the output voltage reaches the set voltage value quickly. In some applications, such as LED testing, when the power output is started, the surge current and overshoot voltage will appear when the voltage reaches the on-state voltage of the LEDs.



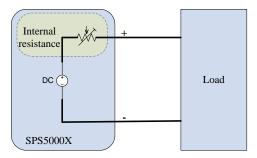
CV priority mode

CC priority mode



Adjustable Output Resistance

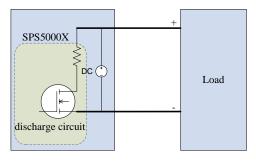
The SPS5000X series power supply supports software - defined settings for output internal resistance. It can be used as an internal resistance in series with the positive output pole. At this point, the power supply is equivalent to the power supply containing internal resistance, such as lead-acid battery or lithium battery.



Internal resistance setting

Built-in Discharge Circuit

SPS5000X series power supply is designed with a discharge circuit in parallel with the output terminal, which can be equivalent to a parallel resistance. When the power is turned off and the load is disconnected, the discharge circuit will discharge the power in the output filter capacitor. Without the discharge circuit, the output capacitance will remain charged, which may pose a dangerous voltage at the output terminals for a period of time. The discharge circuit can also be used to adjust the voltage down slew rate. This function is enabled in the menu by the user.



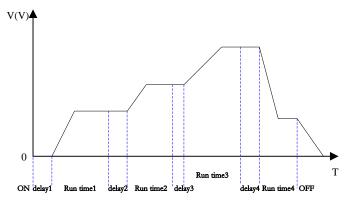
Discharge circuit

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Intuitive List Operation Function

By editing the single-step setting value, duration, and slew rate, the List function can generate multiple complex sequences to meet complex test requirements. The user can edit the sequence by 50 steps natively or import the List sequence file via USB for multi-step running.

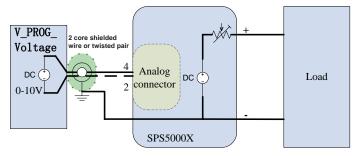
The minimum precision of delay time is 1ms. The minimum running time is 1 second.



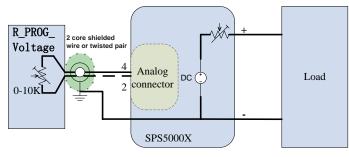


External Analog Control

Four operating modes can be implemented using the analog port on the back of the unit; voltage-controlled voltage, voltage-controlled current, resistance-controlled voltage, and resistance-controlled current. In external voltage control mode, when the terminal is connected with adjustable voltage of 0-10V, it can be used to adjust the output from 0 to full range (10V corresponds to the voltage or current value of the full range of the power supply).



External voltage programming voltage output

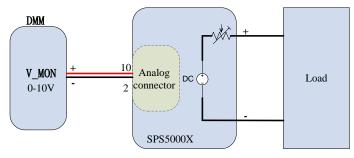


External resistance programming voltage output



Voltage, Current Monitor Output

The voltage and current output monitoring terminal output is a 0-10V voltage analog signal with the corresponding value representing the output current or voltage of the power supply from 0 to full range. The user can connect to one of Siglent's DMMs or oscilloscopes to display the output current or voltage changes.

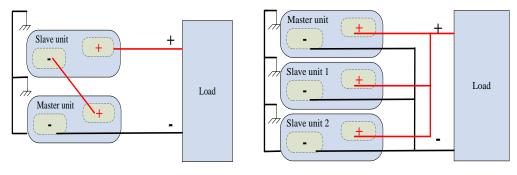


External DMM Monitoring of the Output Voltage

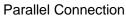
Series and Parallel Function

Multiple single-channel SPS5000X series modules can be connected in series (2 units max.) or in parallel (3 units max), to increase the total output voltage, current and power. The SPS5000X series offers a highly flexible configuration concept to provide high power density that meets the needs of many applications.

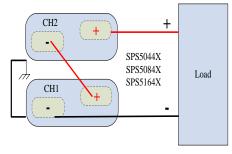
(Typically, outputs of the supply float so the negative terminals are not connected to chassis ground. The negative terminals can also be connected to chassis ground.)



Series Connection



SPS5000X dual-channel model supports two-channel serial and parallel mode to increase voltage or current output.



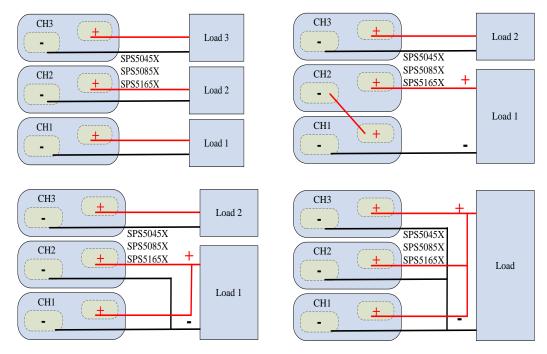
CH2 + Load

Dual-channel Series Connection

Dual-channel Parallel Connection



SPS5000X three-channel model supports the combination of CH1,CH2 channel series and parallel mode and CH1,CH2,CH3 parallel mode for increased voltage or current output.

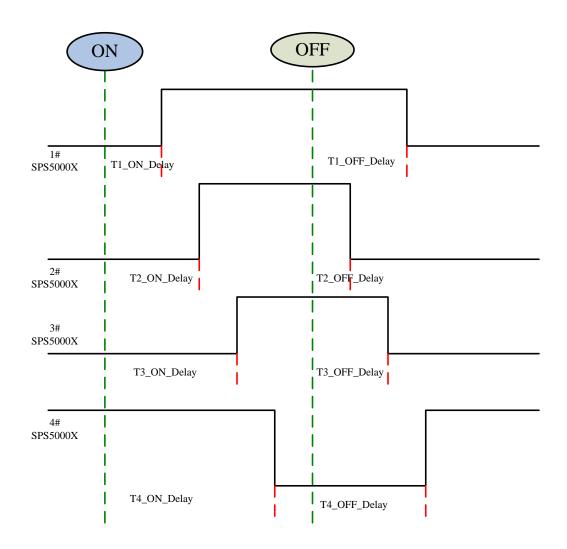


SPS5000X three-channel model



Output ON/OFF delay

Using the power output delay function, the output the output power up and power down of multiple supplies can be precisely set relative to each other. The delay can be set using analog control or programmed through the USB or Ethernet ports.



Multiple SPS5000X output delay control examples



SPS5000X power supply 2 channel output, 3 channel output machine internal configuration output 2 or 3 channel up and down power sequence function.

錄 Utility	🖵 Display	ាំ Acquire	🏲 Trigger	# Cursors	📐 Measure	🕅 Math	दे Analysi	s SIGLENT s f < 2.0Hz	Stop 2	ACQL	JIRE
ΔX= -1.0 1/ΔX= 1.1 X2= -3.0 X1= -2.0	000kHz ns			Ĭ J				/	~		
			_/								
С1 Ь D0	:1М 🚾 ь	DCIM C3	b DC1M					Timebase		C2 DC	
500mV/	div 5.00	other opening the second second	00V/div 0.00V	+				30.2ms 20.0ms/div 10.0Mpts 50.0MSa/s	Stop	8.00V	18:07:11 2020/9/3

SPS5085X 3 channel List delay control output.

Multiple Policy Protection Patterns

The protection functions of the power supply include over current protection (OCP), over voltage protection (OVP) and over temperature protection (OTP). If protection occurs, the power supply will turn off the output and enter protection mode. Protection can be released by pressing the Esc key for at least 2 seconds. Upon entering the Limited power protection (LPP), the system will start the power limitation mode, the maximum output power is about 105% of the rated power

Save/Recall Setting Parameters

The power supply allows users to save multiple types of files to memory for later recall. The power supply provides a non-volatile internal memory and an external memory via the USB port with a user provided USB memory device.



Rich Interface

The power supply includes USB and Ethernet communication interfaces as standard, and a

USB-GPIB converter module as optional. The embedded Web Server enables control and monitor of the power supply directly from a web browser, eliminating the need to install software drivers or applications.

	State	Voltage(V)	Current(A)	Power(W)	Channal Enabled	List	Vset(V)	Iset(A) Output
CH1	CV	29.991	0.000	0.005		0	30	6	
CH2 CH3	CC CC	0.000	0.000	0.000			0	0	ON
									Subr
Add	Step	сн1	CH2	СНЗ			Download	Import	Export
	Step	Vset(V	1	set(A)	Delay Time(s)	Running Time(s)	Slope(V/s)	Operation
	1	3	4		3	3	3		Delete
	2	3	3		2	3	3		Delete
	3	2	2		2	2	4		Delete
	4	3	3		3	1	1		Delete
	5	2	3		3	1	1		Delete
	6	3	2		1	3	1		Delete
	7	3	2		2	4	1		Delete
	8	2	2		3	3	1		Delete
	9	3	2		2	2	2		Delete
	10	1	3		3	2	2		Delete

Web Server Interface



Main Specifications

Unless otherwise noted, all specifications are guaranteed within the temperature range of $25^{\circ}C \pm 5^{\circ}C$ with warm-up time of 30 minutes.

Output channel 1 2 3 CH Rated output voltage 40 0 0 0 0 Rated output current 30 60 90 30 A Total rated output power 360 720 1080 720 1080 W Power Ratio 3.33 5.00 3.33 6.00 0.00
Rated output current 30 60 90 30 A Total rated output power 360 720 1080 720 1080 W Power Ratio 3.33 C.V Mode 60 90 1080 1080 1080 1080 1080 1080 1080 1080 1080 W 1080 W 1080 W 1080 1080 W 1080
Total rated output power 360 720 1080 720 1080 W Power Ratio 3.33 3.33 4.3
Power Ratio 3.33
C.V Mode
Line Regulation 18 (From 90 ~ 132Vac or 170 ~ 265Vac,constant load) m
Load Regulation 20 (From No load to Full load, constant input voltage) mN
Ripple and Noise (*1) (Noise Bandwidth 20MHz; Ripple Bandwidth 1MHz)
RIPPLE(pk to pk) 60 80 100 60 m\
RMS RIPPLE 7 11 14 7 m\
Voltage programming
Accuracy 0.1%±10 m\
Voltage programming
resolution 1 mV
Voltage Readback Accuracy 0.1%±20 m/
Voltage Readback resolution 1 m/
Temperature coefficient 100ppm/°C from rated output voltage following 30-minute warm-up. ppm
Remote compensation
voltage (single wire) 0.6 V
Rise Time 10% ~ 90% of rated output voltage, rated resistance load
Rated Load 50 ms
No Load 50 ms
Fall Time 90% ~ 10% of rated output voltage, rated resistance load
Rated Load 50 ms
No Load 500 ms
1 (Time for recovery to within 0.1% + 10mV of its rated output against current
Transient response time of 50% ~ 100%.) ms
C.C Mode
Line Regulation 40 75 110 40 m/
Load Regulation 40 75 110 40 m/
Ripple and Noise
r.m.s 72 144 216 72 m/



Current Setting Accuracy	0.1%±30	0.1%±60	0.1%±100	0.1%±30	mA		
Current programming							
resolution		1					
Current Readback Accuracy	0.1%±40	0.1%±70	0.1%±100	0.1%±40	mA		
Current Readback resolution			1		mA		
Temperature coefficient	200ppm/°C fror	m rated output cu	rrent following 30	-minute warm-up.	ppm/℃		
Protection Function	•						
OVP							
Setting Range			4~44		V		
Setting Accuracy		± (2%	of rated output vo	oltage)			
OCP	The maximum	The maximum output current limit of the front output terminal is 10A.					
Setting Range	3~30	6~60	9~90	3~30	А		
Setting Accuracy		± (2%	of rated output co	urrent)			
OTP	Over temperatu	ure alarm and shu	it off output.				
Low AC Input Protection	Shut off output.						
LPP	The over powe	r limit is approxim	ately 105% of the	e rated output power.			
Rising/Falling Voltage S	lew Rate: On	ly applicable	if V-I Mode is	set to CV Slew Rate Priorit	y.		
			0.1~80		V/s		
Rising/Falling Current S	Slew Rate: On	ly applicable i	if V-I Mode is	set to CC Slew Rate Priorit	y.		
	0.01~60.00	0.01~120.00	0.01~180.00	0.01~60.00	A/s		
Output resistance settir	ng	I			I		
	0~1.5	0~0.75	0~0.5	0~1.5	Ω		
Efficiency	·	· 			·		
100Vac			>77		%		
200Vac			>79		%		
	-						



Model	SPS5051X	SPS5081X	SPS5082X	SPS5083X	SPS5084X	SPS5085X	units	
Output channel	1		1		2	3	СН	
Rated output voltage	50		80					
Rated output current	10	15	15 30 45 15					
Total rated output power	180	360	720	1080	720	1080	W	
Power Ratio	2.77			3.33				
C.V Mode	P	P						
Line Regulation	3	40 (From 90	0 ~ 132Vac or 1	70 ~ 265Vac,c	constant load)		mV	
Load Regulation	10	40 (From N	o load to Full lo	ad, constant in	put voltage)		mV	
Ripple and Noise (*1)	(Noise Bandy	width 20MHz; R	ipple Bandwidt	h 1MHz)				
RIPPLE(pk to pk)	45	60	80	100	6	60	mV	
RMS RIPPLE	4	7	11	14	-	7	mV	
Voltage programming								
Accuracy			0.19	6±10			mV	
Voltage programming								
resolution				1			mV	
Voltage Readback			0.40	(<u>00</u>				
Accuracy			0.19	6±20			mV	
Voltage Readback								
resolution				Į			mV	
Temperature coefficient	100ppm/°C f	rom rated outpu	it voltage follow	ing 30-minute	warm-up.		ppm/ ℃	
Remote compensation			0	<u>^</u>			N/	
voltage (single wire)			0	.0			V	
Rise Time	10% ~ 90% o	of rated output v	voltage, rated re	esistance load				
Rated Load			5	0			ms	
No Load			5	0			ms	
Fall Time	90% ~ 10% o	of rated output v	oltage, rated re	esistance load				
Rated Load			5	0			ms	
No Load			50	00			ms	
	1 (Time f	or recovery to	within 0.1% +	10mV of its rat	ted output agai	nst current of		
Transient response time	50% ~ 100%	.)					ms	
C.C Mode	ŗ							
Line Regulation	8	18	32	45	1	8	mA	
Load Regulation	10	18	32	45	1	8	mA	
Ripple and Noise		•			•			
r.m.s	10	27	54	81	2	.7	mA	
Current Setting	0.40% 10	0.40/ 10	0.40/ 00	0.40/ 10		(10		
Accuracy	0.1%±10	0.1%±10	0.1%±30	0.1%±40	0.1%	6±10	mA	
Current programming								
resolution				I			mA	



Current Readback								
Accuracy	0.1%±20	0.1%±20	0.1%±40	0.1%±50	0.1%	%±20	mA	
Current Readback							mA	
resolution		1						
Temperature coefficient	200ppm/°C fr	om rated outpu	at current follow	ving 30-minute	warm-up.		ppm/ ℃	
Protection Function								
OVP								
Setting Range	5~55			8~88			V	
Setting Accuracy			± (2% of rated	output voltage)			
OCP	The maximur	The maximum output current limit of the front output terminal is 10A.						
Setting Range	1~11	1.5~16.5		3~33	4.5~49.5	1.5~16.5	А	
Setting Accuracy			± (2% of rated	output current)			
OTP	Over tempera	ature alarm and	I shut off outpu	t.				
Low AC Input Protection	Shut off outp	ut.						
LPP	The over pow	ver limit is appr	oximately 105%	6 of the rated o	output power.			
Rising/Falling Voltag	e Slew Rate	e: Only appl	icable if V-I	Mode is set	to CV Slew	Rate Priorit	у.	
	0.1~100			0.1~160			V/s	
Rising/Falling Current	nt Slew Rate	e: Only appl	icable if V-I	Mode is set	to CC Slew	Rate Priorit	y.	
	0.01~20.00	0.01~30.00 0.01~60.00 0.01~90.00 0.01~30.00						
Output resistance se	etting							
	0~6	0~6 0~6 0~3 0~2 0~6						
Efficiency								
100Vac	>77			>77			%	
200Vac	>79		>79					

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Model	SPS5161X	SPS5162X	SPS5163X	SPS5164X	SPS5165X	units	
Output channel		1		2	3	СН	
Rated output voltage		160					
Rated output current	7.5	7.5 15 22.5 7.5					
Total rated output power	360	720	1080	720	1080	W	
Power Ratio			3.33				
C.V Mode							
Line Regulation	80 (From 90 ~	- 132Vac or 170 -	~ 265Vac,constar	t load)		mV	
Load Regulation	80 (From No	oad to Full load,	constant input vol	tage)		mV	
Ripple and Noise (*1)	(Noise Bandwid	th 20MHz; Ripple	e Bandwidth 1MH	z)			
RIPPLE(pk to pk)	60	80	100	6	0	mV	
RMS RIPPLE	12	15	20	1	2	mV	
Voltage programming			0.4% - 400				
Accuracy			0.1%±100			mV	
Voltage programming			1			m)/	
resolution			1			mV	
Voltage Readback Accuracy			0.1%±100			mV	
Voltage Readback resolution		1					
Temperature coefficient	100ppm/°C fror	100ppm/°C from rated output voltage following 30-minute warm-up.					
Remote compensation		0.6					
voltage (single wire)			0.0			V	
Rise Time	10% ~ 90% of r	ated output volta	ge, rated resistan	ce load			
Rated Load			100			ms	
No Load			100			ms	
Fall Time	90% ~ 10% of r	ated output volta	ge, rated resistan	ce load			
Rated Load			100			ms	
No Load			1000			ms	
Tanania da ang sa sa sina s	2 (Time for r	ecovery to within	0.1% + 10mV of i	ts rated output a	gainst current of		
Transient response time	50% ~ 100%.)					ms	
C.C Mode							
Line Regulation	12	19	26	1	2	mA	
Load Regulation	12	19	26	1	2	mA	
Ripple and Noise							
r.m.s	15	30	45	1	5	mA	
Current Setting Accuracy	0.1%±5	0.1%±15	0.1%±20	0.19	%±5	mA	
Current programming			1			mA	
resolution			I				
Current Readback Accuracy	0.1%±5	0.1%±15	0.1%±20	0.19	%±5	mA	
Current Readback resolution			1			mA	
Temperature coefficient	200ppm/°C fror	n rated output cu	rrent following 30	-minute warm-up		ppm/ ℃	
Protection Function							



OVP							
Setting Range		16~176					
Setting Accuracy		± (2%	of rated output vo	bltage)			
OCP	The maximum o	utput current lim	it of the front outp	out terminal is 10A.			
Setting Range	0.75~8.25	0.75~8.25 1.5~16.5 2.25~24.75 0.75~8.25					
Setting Accuracy		± (2% of rated output current)					
OTP	Over temperatur	re alarm and shu	t off output.				
Low AC Input Protection	Shut off output.	Shut off output.					
LPP	The over power	The over power limit is approximately 105% of the rated output power.					
Rising/Falling Voltage S	Slew Rate: Onl	y applicable i	if V-I Mode is	set to CV Slew Rate Priorit	у.		
			0.1~320		V/s		
Rising/Falling Current S	Slew Rate: Onl	y applicable i	if V-I Mode is	set to CC Slew Rate Priorit	у.		
	0.01~15.00	0.01~30.00	0.01~45.00	0.01~15.00	A/s		
Output resistance setting	ng						
	0~24	0~12	0~8	0~24	Ω		
Efficiency							
100Vac	>80						
200Vac		>82					

*1: Use probe to measure at the positive and negative poles of sense terminal.



		1-ch	annel		2-channel	3-channel	
Series and parallel cap	ability						
parallel		:	3		no	ne	Units
Series		:	2		no	ne	Units
Channels in series and					Connect throug	h an analog	
parallel		nc	one		interface.		
Analog programming a	nd monito	ring					
External Voltage Control of							
the Voltage Output		Ac	curacy: +0.5	% of rated ou	itput voltage		
External Voltage Control of							
the Current Output		A	ccuracy: +1%	% of rated out	put current		
External Resistance Control							
of the Voltage Output		Ac	curacy: +1.5	% of rated ou	itput voltage		
External Resistance Control							
of the Current Output		Ac	curacy: +1.5	% of rated ou	itput current		
Output Voltage/ Current							%
monitor accuracy		±1					
Shutdown control		Close output with LOW (0V~0.5V) or short circuit					
		Use LOW (0V~0.5V) or short circuit to turn on the output.					
Output On/Off control		Use HIGH (4.5V~5V) or open circuit to turn off the output.					
CV/CC/ERR/	Photo coup	Photo coupler open collector output; Maximum voltage 30V, maximum sink current					
ON/OFF Status	8mA.						
Input Characteristics							
Normal Rated Input		100Va	ac ~ 240Vac,	50Hz ~ 60Hz	z, Single-phase		
Input Voltage Range			90\	/ac ~ 265Vac	;		
Input Frequency Range			4	7Hz ~ 63Hz			
Maximum Input Current of	180W	360W	720W	1080W	360W 2CH	360W 3CH	
different power models	0.5		10	45	10	45	•
100Vac	2.5	5	10 E	15	10	15	A
200Vac	1.25	2.5 <25A.	5	7.5	5	7.5	A
Surge Current	<15A.	_	<50A.	<75A.	<50A.	<75A.	1/4
Maximum Input Power	250	500	1000	1500	1000	1500	VA
Power factor				0.00			
100Vac		0.99					
200Vac				0.98			
Hold-up time				≥20ms			
Interface capability							
USB		Т	ype A: HOS	T, Type B: DE	EVICE, SPEED: 1	.1/2.0	
LAN		MAC addres	s, Gateway I	P address, In	strument IP addre	ess, Subnet Mask	
GPIB		Optional: USB-GPIB adapter					

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Environment Condition							
Operating Temperature			0°C ~ 50°C				
Storage temperature			-25°C ~ 70°C				
Operating humidity		20% ~ 8	5% RH; No cond	ensation			
Storage humidity		90% RH	l or less; No cond	lensation			
Altitude			≤ 2000m				
General specifications							
Weight (host only)	3.3	5.3	7.5	5.5	7.8	Kg	
Dimensions (WxHxD)	71x124x418	142x124x418	214x124x418	142x124x418	214x124x418	mm	
Cooling	Internal fan ford	ed air cooling					
	Class A test and	d measurement p	products in compl	iance with Europe	ean EMC		
EMC	Directive 2014/3	30/EU					
	Input to Base: 1	500 VAC for 1 m	inute without abr	ormality			
Withstand Voltage	Input to Output:	3000 VAC for 1	minute without at	onormality			
	Output to Base:	Output to Base: 500 VDC for 1 minute without abnormality					
	Input to Base: 5	Input to Base: 500 VDC, ≥100m Ω					
Insulation Resistance	Input and Output	Input and Output: 500 VDC, ≥ 100m Ω					
	Output to Base:	500 VDC, ≥100	mΩ				



Ordering information

Product informa	tion	Product No
40V/30A 360W	Single channel programmable Switching DC Power supply	SPS5041X
40V/60A 720W	Single channel programmable Switching DC Power supply	SPS5042X
40V/90A 1080W	Single channel programmable Switching DC Power supply	SPS5043X
40V/30A 360WX2	Dual Channel Programmable Switching DC Power supply	SPS5044X
40V/30A 360WX3	Three Channel Programmable Switching DC Power supply	SPS5045X
50V/10A 180W	Single channel programmable Switching DC Power supply	SPS5051X
80V/15A 360W	Single channel programmable Switching DC Power supply	SPS5081X
80V/30A 720W	Single channel programmable Switching DC Power supply	SPS5082X
80V/45A 1080W	Single channel programmable Switching DC Power supply	SPS5083X
80V/15A 360WX2	Dual Channel Programmable Switching DC Power supply	SPS5084X
80V/15A 360WX3	Three Channel Programmable Switching DC Power supply	SPS5085X
160V/7.5A 360W	Single channel programmable Switching DC Power supply	SPS5161X
160V/15A 720W	Single channel programmable Switching DC Power supply	SPS5162X
160V/22.5A 1080W	Single channel programmable Switching DC Power supply	SPS5163X
160V/7.5A 360WX2	Dual Channel Programmable Switching DC Power supply	SPS5164X
160V/7.5A 360WX3	Three Channel Programmable Switching DC Power supply	SPS5165X
	Standard Accessories	
USB Cable -1		
Quick Start -1		
Calibration Certificat	e -1	
Power Cord -1		
Output guard -1		

Marranty

Three-year warranty, excluding accessories.



About SIGLENT

SIGLENT is an international high-tech company, concentrating on R&D, sales, production and services of electronic test & measurement instruments.

SIGLENT first began developing digital oscilloscopes independently in 2002. After more than a decade of continuous development, SIGLENT has extended its product line to include digital oscilloscopes, isolated handheld oscilloscopes, function/arbitrary waveform generators, RF/MW signal generators, spectrum analyzers, vector network analyzers, digital multimeters, DC power supplies, electronic loads and other general purpose test instrumentation. Since its first oscilloscope was launched in 2005, SIGLENT has become the fastest growing manufacturer of digital oscilloscopes. We firmly believe that today SIGLENT is the best value in electronic test & measurement.

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