

SPS5000X Series wide range programmable Switching DC Power Supply datasheet

# **Datasheet**





### 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.



### Main Features

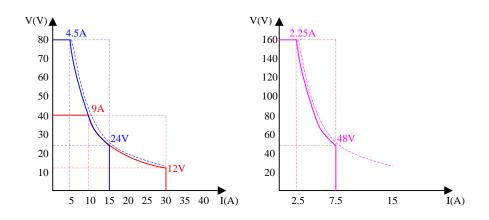
- Rated Output Voltage: 40V, 50V, 80V, 160V
- Rated Output Power: 180W, 360W, 720W, 1080W
- Wide range of output voltage and current, high efficiency power supply
- CV, CC priority mode selection, better protection of equipment under test
- Load transient recovery time (Load change from 50~100%) <1ms</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
- OVP, OCP, LPP, OTP protection.
- 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
- √ 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.



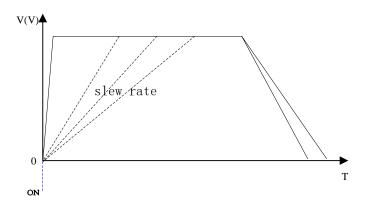
80V 15A/ 40V 30A Output Operating Area

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.

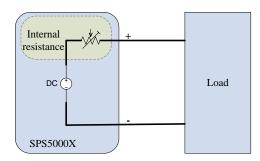


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#### Adjustable Output Resistance

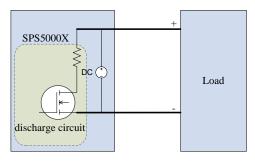
The SPS5000X series power supply supports software - defined settings for output internal resistance. It can be used as an internal resistance in series with the positive output pole. At this point, the power supply is equivalent to the power supply containing internal resistance, such as lead-acid battery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



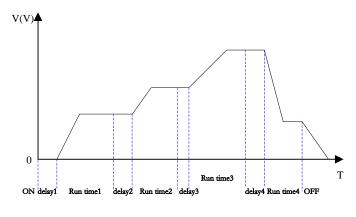
Discharge circuit



## 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.

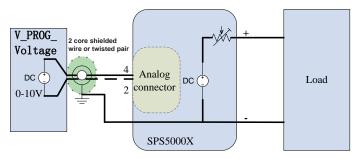
The minimum precision of delay time is 1ms. The minimum running time is 1 second.



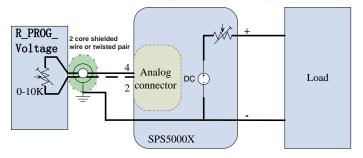
List mode

### 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

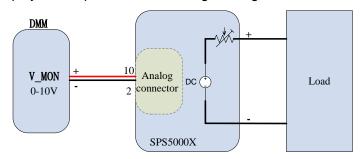


External resistance programming voltage output



## 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.

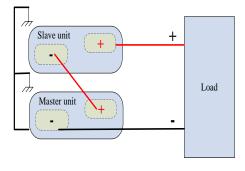


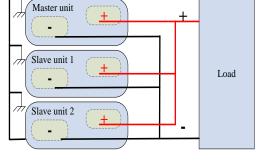
External DMM Monitoring of the Output Voltage

#### 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.)

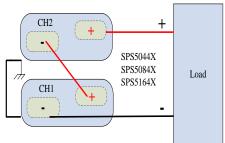




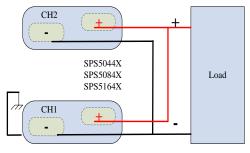
Series Connection

**Parallel Connection** 

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



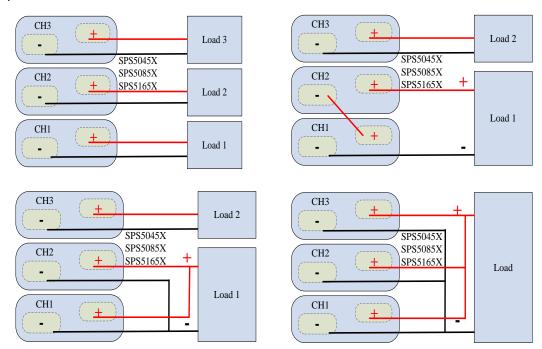




**Dual-channel Parallel Connection** 



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.

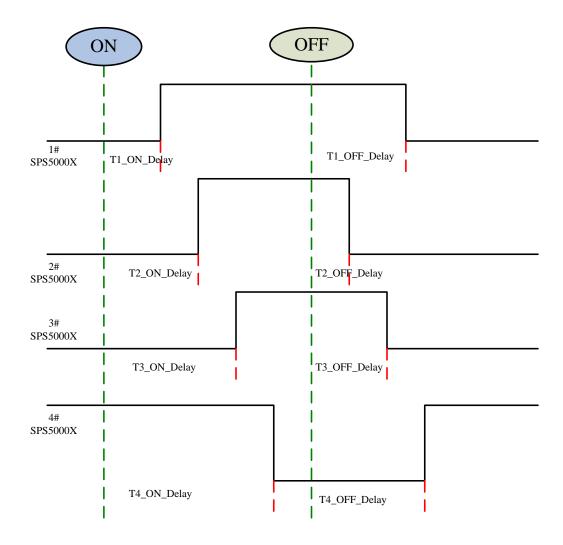


SPS5000X three-channel model



# 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.



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

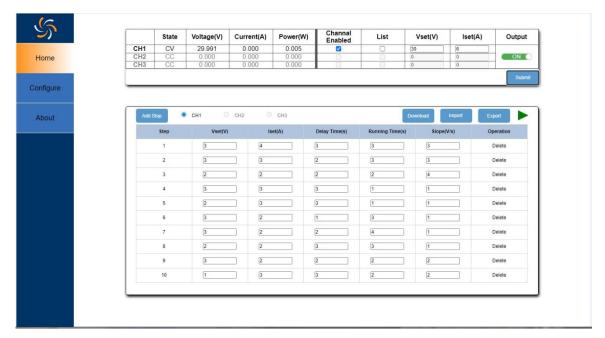
The power supply allows users to save multiple types of files to memory for later recall. The power supply provides a non-volatile internal memory and an external memory via the USB port with a user provided USB memory device.



#### 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.



**Web Server Interface** 



# Specifications

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

Model	SPS5041X	SPS5042X	SPS5043X	SPS5044X	SPS5045X	units	
Output channel	1 2 3					СН	
Rated output voltage			40			V	
Rated output current	30	30 60 90 30				Α	
Total rated output power	360	720	1080	720	1080	W	
Power Ratio			3.33				
C.V Mode							
Line Regulation	18 (From 90 -	- 132Vac or 170 -	~ 265Vac,constar	nt load)		mV	
Load Regulation	20 (From No I	oad to Full load,	constant input vo	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	7	11	14	-	7	mV	
Voltage programming							
Accuracy	0.1%±10					mV	
Voltage programming							
resolution			1			mV	
Voltage Readback Accuracy			0.1%±20			mV	
Voltage Readback resolution	1						
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					
No Load			50			ms	
Fall Time	90% ~ 10% of r	ated output volta	ge, rated resistan	ce load			
Rated Load			50			ms	
No Load			500			ms	
	1 (Time for	recovery to within	n 0.1% + 10mV o	its rated output a	against current		
Transient response time	of 50% ~ 100%	.)				ms	
C.C Mode							
Line Regulation	40	75	110	4	0	mA	
Load Regulation	40	75	110	4	0	mA	
Ripple and Noise							
r.m.s	72	144	216	7	2	mA	



	1	1	1		_		
Current Setting Accuracy	0.1%±30	0.1%±60	0.1%±100	0.1%±30	mA		
Current programming							
resolution			1		mA		
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 from	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 voltage)					
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 current)					
OTP	Over temperatu	Over temperature alarm and shut off output.					
Low AC Input Protection	Shut off output.	Shut off output.					
LPP	The over powe	The over power limit is approximately 105% of the rated output power.					
Rising/Falling Voltage S	Slew Rate: On	ly applicable i	if V-I Mode is	set to CV Slew Rate Prior	itv		
Thomg/running voltage (	now reace. On	iy applicable		oct to or clow react the			
			0.1~80		V/s		
Rising/Falling Current S	Slew Rate: On	ly applicable	if V-I Mode is	set to CC Slew Rate Prior	ity.		
	0.01~60.00	0.01~120.00	0.01~180.00	0.01~60.00	A/s		
Output resistance setti	ng						
	0~1.5	0~0.75	0~0.5	0~1.5	Ω		
Efficiency							
100Vac		>77 %					
		>79 %					



Model	SPS5051X	SPS5081X	SPS5082X	SPS5083X	SPS5084X	SPS5085X	units
Output channel	1		1		2	3	СН
Rated output voltage	50			80			V
Rated output current	10	15	30	45	1	5	А
Total rated output power	180	360	720	1080	720	1080	W
Power Ratio	2.77			3.33			
C.V Mode							
Line Regulation	3	40 (From 9	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 Band	width 20MHz; R	Ripple Bandwidt	h 1MHz)			
RIPPLE(pk to pk)	45	60	80	100	6	0	mV
RMS RIPPLE	4	7	11	14	-	7	mV
Voltage programming							
Accuracy		0.1%±10					mV
Voltage programming							.,
resolution		1					mV
Voltage Readback		0.1%±20					
Accuracy		0.176±20					mV
Voltage Readback							
resolution		1					mV
Temperature coefficient	100ppm/°C from rated output voltage following 30-minute warm-up.						ppm/℃
Remote compensation							V
voltage (single wire)		0.6					
Rise Time	10% ~ 90% (	10% ~ 90% of rated output voltage, rated resistance load					
Rated Load		50					
No Load		50					
Fall Time	90% ~ 10% (	of rated output v	oltage, rated re	esistance load			
Rated Load		50					ms
No Load			50	00			ms
	1 (Time f	or recovery to	within 0.1% +	10mV of its rat	ed output agai	nst current of	
Transient response time	50% ~ 100%.)					ms	
C.C Mode							
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							_
Accuracy	0.1%±10	0.1%±10	0.1%±30	0.1%±40	0.1%	6±10	mA
Current programming		1	<u> </u>		<u> </u>		_
resolution				I			mA



Current Readback							
Accuracy	0.1%±20	0.1%±20	0.1%±40	0.1%±50	0.1%	%±20	mA
Current Readback					1		
resolution				1			mA
Temperature coefficient	200ppm/°C fr	om rated outpu	ut current follo	wing 30-minute	warm-up.		ppm/℃
<b>Protection Function</b>							
OVP							
Setting Range	5~55	5 8~88					
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)					
ОТР	Over tempera	Over temperature alarm and shut off output.					
Low AC Input Protection	Shut off outpo	Shut off output.					
LPP	The over pow	The over power limit is approximately 105% of the rated output power.					
Rising/Falling Voltage	e Slew Rate: Only applicable if V-I Mode is set to CV Slew Rate Priority.					y.	
	0.1~100			0.1~160			V/s
Rising/Falling Curre	nt Slew Rate	e: Only appl	icable if V	I Mode is se	t 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	A/s
Output resistance se	etting						
	0~6	0~6 0~3 0~2 0~6					Ω
Efficiency							
100Vac	>77			>77			%
200Vac	>79			>79			%



Model	SPS5161X	SPS5162X	SPS5163X	SPS5164X	SPS5165X	units	
Output channel		1		2	3	СН	
Rated output voltage			160			V	
Rated output current	7.5	15	22.5	7.	.5	Α	
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	nt load)		mV	
Load Regulation	80 (From No I	oad to Full load,	constant input vo	tage)		mV	
Ripple and Noise (*1)	(Noise Bandwid	th 20MHz; Ripple	e Bandwidth 1MH	z)			
RIPPLE(pk to pk)	60	80	100	6	60	mV	
RMS RIPPLE	12	15	20	1	2	mV	
Voltage programming		0.1%±100					
Accuracy		0.170至100					
Voltage programming		1					
resolution			1			mV	
Voltage Readback Accuracy		0.1%±100					
Voltage Readback resolution		1					
Temperature coefficient	100ppm/°C fror	100ppm/°C from rated output voltage following 30-minute warm-up.					
Remote compensation			0.6			V	
voltage (single wire)			0.0			V	
Rise Time	10% ~ 90% of r	10% ~ 90% of rated output voltage, rated resistance load					
Rated Load	100						
No Load		100					
Fall Time	90% ~ 10% of r	90% ~ 10% of rated output voltage, rated resistance load					
Rated Load	100					ms	
No Load		1000					
Transient response time	2 (Time for re	2 (Time for recovery to within 0.1% + 10mV of its rated output against 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			ı			111/1	
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/℃	
<b>Protection Function</b>							



OVP							
Setting Range			16~176		V		
Setting Accuracy		± (2% of rated output voltage)					
OCP	The maximum o	utput current lim	it of the front outp	ut terminal is 10A.			
Setting Range	0.75~8.25	1.5~16.5	2.25~24.75	0.75~8.25	А		
Setting Accuracy		± (2%	of rated output co	urrent)			
OTP	Over temperatur	Over temperature alarm and shut off output.					
Low AC Input Protection	Shut off output.	Shut off output.					
LPP	The over power limit is approximately 105% of the rated output power.						
Rising/Falling Voltage Slew Rate: Only applicable if V-I Mode is set to CV Slew Rate Priority.							
		0.1~320					
Rising/Falling Current S	lew Rate: Only applicable if V-I Mode is set to CC Slew Rate Priority.						
9	new Rate: Only	/ applicable i	f V-I Mode is	set to CC Slew Rate Priorit	у.		
	0.01~15.00	/ applicable i	f V-I Mode is 0.01~45.00	set to CC Slew Rate Priorit 0.01~15.00	y. A/s		
Output resistance settir	0.01~15.00						
	0.01~15.00						
	0.01~15.00	0.01~30.00	0.01~45.00	0.01~15.00	A/s		
Output resistance settir	0.01~15.00	0.01~30.00	0.01~45.00	0.01~15.00	A/s		

<sup>\*1:</sup> Use probe to measure at the positive and negative poles of sense terminal.



		1-ch	annel		2-channel	3-channel	
Series and parallel capa	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		۸ -		)/ -ftl			
the Voltage Output		AC	curacy: +0.5	% of rated ou	tput voitage		
External Voltage Control of			4.0				
the Current Output		Accuracy: +1% of rated output current					
External Resistance Control							
of the Voltage Output		Accuracy: +1.5% of rated output voltage					
External Resistance Control		Acquired 14 FOV of rated autout arrange					
of the Current Output		Accuracy: +1.5% of rated output current					
Output Voltage/ Current		<b>.</b> 1					%
monitor accuracy		±1					
Shutdown control		Close output with LOW (0V~0.5V) or short circuit					
Output On/Off control		Use LOW (	0V~0.5V) or	short circuit t	o turn on the outp	out.	
Output On/Off control		Use HIGH (4.5V~5V) or open circuit to turn off the output.					
CV/CC/ERR/	Photo coup	oler open coll	ector output;	Maximum vo	ltage 30V, maxim	num sink current	
ON/OFF Status	8mA.	8mA.					
Input Characteristics							
Normal Rated Input		100Vac ~ 240Vac, 50Hz ~ 60Hz, Single-phase					
Input Voltage Range		90Vac ~ 265Vac					
Input Frequency Range			4	7Hz ~ 63Hz			
Maximum Input Current of different power models	180W	360W	720W	1080W	360W 2CH	360W 3CH	
100Vac	2.5	5	10	15	10	15	Α
200Vac	1.25	2.5	5	7.5	5	7.5	Α
Surge Current	<15A.	<25A.	<50A.	<75A.	<50A.	<75A.	
Maximum Input Power	250	500	1000	1500	1000	1500	VA
Power factor		1	ı	1	I	I	
100Vac				0.99			
200Vac				0.98			
Hold-up time				≥20ms			
Interface capability							
USB		Т	ype A: HOS	Γ, Type B: DI	EVICE, SPEED: 1	.1/2.0	
LAN						ess, Subnet Mask	
GPIB				-	SPIB adapter		



<b>Environment Condition</b>						
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	or less; No cond	ensation		
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	Internal fan forced air cooling				
	Class A test and measurement products in compliance with European EMC					
EMC	Directive 2014/30/EU					
	Input to Base: 1500 VAC for 1 minute without abnormality					
Withstand Voltage	Input to Output:	Input to Output: 3000 VAC for 1 minute without abnormality				
	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 Outpo	ut: 500 VDC, ≥ 10	00m Ω			
	Output to Base	: 500 VDC, ≥100r	n Ω			



# Ordering information

Single channel programmable Switching DC Power supply  40V/60A 720W Single channel programmable Switching DC Power supply  40V/90A 1080W Single channel programmable Switching DC Power supply  40V/30A 360WX2 Dual Channel Programmable Switching DC Power supply  40V/30A 360WX3 Three Channel Programmable Switching DC Power supply  50V/10A 180W Single channel programmable Switching DC Power supply  80V/15A 360W Single channel programmable Switching DC Power supply  80V/30A 720W Single channel programmable Switching DC Power supply  80V/45A 1080W Single channel programmable Switching DC Power supply  80V/15A 360WX2 Dual Channel Programmable Switching DC Power supply  80V/15A 360WX3 Three Channel Programmable Switching DC Power supply  80V/15A 360WX3 Three Channel Programmable Switching DC Power supply	SPS5041X SPS5042X SPS5043X SPS5044X SPS5045X SPS5051X SPS5081X SPS5082X SPS5083X
40V/90A 1080W Single channel programmable Switching DC Power supply 40V/30A 360WX2 Dual Channel Programmable Switching DC Power supply 40V/30A 360WX3 Three Channel Programmable Switching DC Power supply 50V/10A 180W Single channel programmable Switching DC Power supply 80V/15A 360W Single channel programmable Switching DC Power supply 80V/30A 720W Single channel programmable Switching DC Power supply 80V/45A 1080W Single channel programmable Switching DC Power supply 80V/15A 360WX2 Dual Channel Programmable Switching DC Power supply 80V/15A 360WX3 Three Channel Programmable Switching DC Power supply 80V/15A 360WX3 Three Channel Programmable Switching DC Power supply	SPS5043X SPS5044X SPS5045X SPS5051X SPS5081X SPS5082X
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80V/15A 360WX3 Three Channel Programmable Switching DC Power supply	
	SPS5084X
	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 Certificate -1

Power Cord -1

Output guard -1

Optional Accessories				
SPS5000X-SEC	SPS5000X Series cable			
SPS5000X-PAC	SPS5000X Parallel cable			
SPS5000X-RMK	SPS5000X EIA Standard rack			

# Warranty

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.

#### **Headquarters:**

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