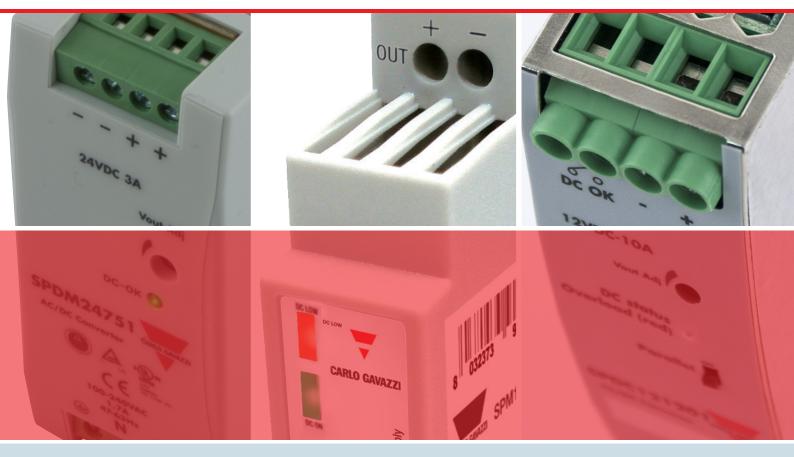
CARLO GAVAZZI Automation Components





Switch mode power supplies

Switches

SDD SDDC SPDM... Switching power supplies

Carlo Gavazzi provides one of the most complete range of switch mode power supplies for most of applications where reliable low DC voltage is required.

The broadest part of product Line-up is dedicated to DIN Rail mounted devices for both electric distribution panels and automation industry cabinets whilst the SPPC family features enclosed switch mode power supplies from 25w to 800W which can be deployed in virtually any kind of device or machinery.

The latest products added to the range feature reduced dimensions as this is the latest technological requirement. In order to achieve this goal the overall efficiency has been increased.

SPDC series features some of the most slim DIN rail power supplies available on the market.

Bi and Tri Phase input power supplies are available from 100W up to 960W, single phase from 5W to 800W. Besides the standard CE and RoHS compliances, UL and CCC approvals the range features also some devices which comply to UL Class I, Div 2 hazardous location installation certification and UL1310 Class 2.



A supply source for any requirement

SPM

Single phase input power supplies. Their low profile DIN enclosure, for installation in electric distribution panels, makes them the ideal choice for deployment in home and building automation. Output Power from 7.5W to 100W. CE, RoHS, UL, TUV, UL 1310 Class 2, hazardous classification Class I Div 2.

SPPC

Enclosed type single phase input power supplies. These devices are not specific for any application, they can be deployed in virtually any appliance requirig DC voltage. Available DC voltages: 5, 12, 15, 24 and 48V with output powers from 25W to 800W, with PFC from 100W. CE, RoHS and UL on all sizes.

SPD

This is the broadest family among Carlo Gavazzi power supplies product line-up. It features DIN Rail mounting devices from 5W to 480W with single phase input, 1 bi-phase input 100W and from 120W to 960W with three phase input. SPD series are suitable for demanding applications where dimensions are not issue. They provide DC OK output, PFC and Parallel operation facility. CE, RoHS, CCC, TUV, UL, UL 1310 Class 2 <90W, hazardous classification Class I Div 2.

SPDM

This new family of single phase input power supplies features reduced width and general volume reduction if compared with similar devices with same output power. No Frills, just basic functions, but high performance and high reliability. Output power from 30W to 120W but only two available voltages: 12 and 24V. CE, RoHS, UL, TUV.

SPDC

This new family of power supplies has been developed with the goal of reaching the highest performance with the lowest dimensions. Two only available output powers 120W and 240W. These power supplies feature one of highest compactness among DIN rail mounting power supplies. Besides compactness they provide PFC, DC OK relay output and parallel connection facility. CE, RoHS.











Applications

Automation systems

The choice of power supplies for automation systems is broad, virtually any kind of power supply is suitable for deployment in automation applications.

The most common types of power supplies are DIN rail mounting with 24 Vdc output.

The reliability of an automation system depends on the quality and stability of the power supply.

Power losses, dips and peaks even of short duration, can limit the performance of the systems and could have expensive consequences, such as loss of data, malfunctions of the control system and production process downtime.

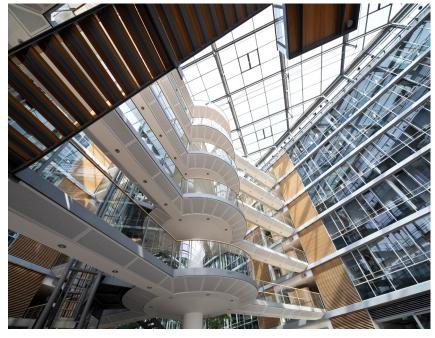
In high volume production processes, such as the automotive industry, where the average productivity is around 2000 cars per day, even a short downtime of half an hour can cause considerable financial losses.





Building automation

Building Automation Systems consists of the networking of electronic devices designed to monitor and control the mechanical, security, lighting, HVAC, humidity and ventilation systems in buildings such as shopping malls, Offices, Airports, Hospitals, Schools, Carparks, Production facilities, Logistics centres. New energy-efficient buildings and the improvement of existing ones are arguably the most important initiatives we can take to reduce energy consumption and limit CO² emissions. To meet the mandatory requirements for energy saving, building owners must comply with efficiency improvement regulations. Carlo Gavazzi provides 1, 2 and 3 phases power supplies, with output power from 5W to 960W. These power supplies feature, besides enclosures suitable for distribution panels, versions with DC OK output in order to provide immediate feedback to automation.



DIN-Rail switching power supplies

SPD 5-10-18W





SPD 30-60W



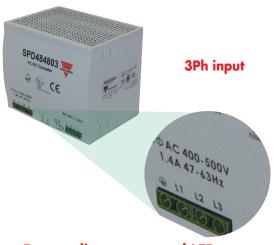
SPD 240-300W 1-Phase



SPD 100W 1/2-Phase



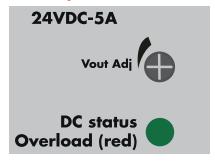
SPD 240-480W 3-Phase



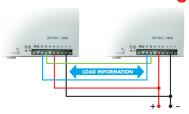
SPD 960W 3-Phase



Front adjustments and LEDs



Active current sharing



The 960 watt power supplies feature active current sharing. By connecting two wires from one power supply to the other, they exchange information regarding the output current and adapt to one another to have equal outputs.

DIN-Rail switching power supplies



SPDM 30







SPDM 75

SPDM 120

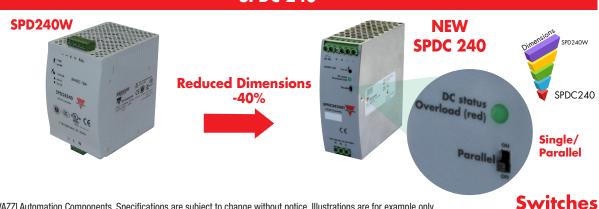




SPDC 120



SPDC 240



Low profile switching power supplies

SPM1 10W

SPM3 30W

SPM4 60W





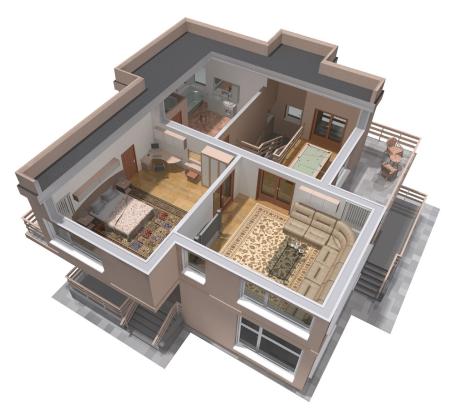


SPM5 100W



SPM Modular switching Power Supplies

SPM switching power supplies are specifically designed in order to satisfy both the industrial automation and the building automation application requirements, as in distribution boxes, with just a little more than 55mm/2.18" of depth, SPMs allow flush mounting on the front panel of the boxes. This concept is modular according to DIN standard.



Enclosed switching power supplies



SPPC Miniature 25W / 35W / 50W

SPPC Medium 75W / 100W / 150W



This range of SPPC are suitable for low power application and where special voltages are required. The small footprint enable it be to fitted easily in any devices.



This range of SPPC have the best compromise between power and dimensions. The 150W is available with/without PFC.

SPPC Compact 200W / 240W / 320W



This range of SPPC all feature PDC with PF>0.95. It has one of the most compact frame size compared to other similar power devices.

SPPC High Power 480W / 600W / 800W



These SPPC caters to the high-power application with on-board PFC (PF>0.96). ZVS technology reduces power dissipation, thus allowing a U profile height of only 41mm.



Special Devices

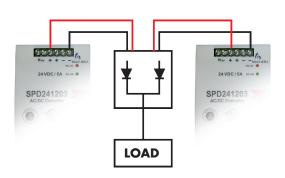
Redundancy module





Redundancy module

The redundancy module guarantees the continuity of the DC source through the connection of 2 or more power supplies to it. In case of failure in 1 of the supply, the module automatically draws the required power from the other.



Battery chargers & UPS



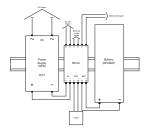
SPM5 Battery charger

The SPM5BC battery chargers are a range of power supply units which charge lead-acid batteries, optimising their performance and duration. Based on switch-mode technology, they produce an output voltage stabilized at a preset value, even when not being charged. Made in a low profile plastic housing, they feature universal input 90~264VAC, integrated short circuit protection and battery polarity protection.



SPUC UPS controller

SPUC is a standard UPS controller that provide DC power supply of up to 30A. The SPUC manages and monitors the battery charging, while provides a stabilized 12Vdc or 24Vdc output at the same time.

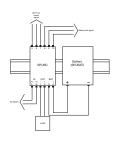




SPBC UPS battery charger

SPUBC is a state of the art UPS system; Integrating a power supply, a battery charger and a UPS into a single unit.

The DC output is guaranteed during mains failure, the output current can be doubled momentarily and the battery is continuously monitored.





Product selection tables

SPD Series, SINGLE PHASE - Standard DIN Rail mounting

De	evice	Output power	Available output voltages	Input VAC	Input VDC	Approvals	Dimensions L x W x D mm, (inch)
mmin	SPD 5W/B	5W			120 - 370		90 x 22.5 x 114 (3.60 x 0.89 x 4.49)
4 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	SPD 10W/B	10W	5V - 12V - 15V - 24	90 - 264	120 - 375		
	SPD 18W/B	18W				CE, TUV, cULus,	90 x 40.5 x 114
200	SPD 30W/B	30W	EV 40V 04V 40V	05 074		UL 1310 Cl. 2, Class I Div 2	(3.60 x 1.59 x 4.49)
200	SPD 60W/B	60W	5V - 12V - 24V - 48V	83 - 204	90 - 375		
	SPD 90W/L	90W	24V				90 x 54 x 114
	SPD 100W	100W			120 - 375 -		(3.60 x 2.13 x 4.49)
N. C.	SPD 120W/B	- - 120W	12V - 24V - 48V		210 - 315	CE, TUV, cUlus, Class I Div 2	
	SPD 120W N SPD 120W N/B				210 - 370		
	SPD 240W	240W	24V / 48V	90 - 264	210 - 375		
Se de Ce	SPD 240W/B	- 24000	247 / 407	- 70 - 204 			
	SPD 300W	300W					124 x 83.5 x 123.6
a de ce	SPD 300W/B	300 **					(4.88 × 3.29 × 4.87)
SPORTED ST.	SPD 480W	480W			120 - 375		124.5 x 175.5 x 12.6
	SPD 480W/B	.0077		0 0 , 0		(4.9 x 6.91 x 4.87)	

SPD Series, BI - THREE PHASE - standard DIN Rail mounting

De	Device		Available output voltages	Input Input VAC VDC		Approvals	Dimensions L x W x D mm, (inch)
	SPD 100W/2	100W	12V - 24V - 48V				90 x 54 x 14.4 (3.6 x 2.13 x 4.49)
	SPD 120W/3	120W	12v - 24V				124 × 74.3 × 118.8 (4.88 × 2.92 × 4.68)
Act CC	SPD 240W/3	240W		340 - 575	480 - 820	CE, TUV, cULus, Class I Div 2	124 × 89. × 118.8 (4.88 × 3.5 × 4.68)
STOREGO STOREGO	SPD 480W/3	480W	24V - 48V				124 x 150 x 118.8 (4.88 x 5.91 x 4.68)
180	SPD 960W/3	960W					126.2 x 275.8 x 118.8 (4.97 x 10.86 x 4.68)

Product selection tables

SPDM / SPDC Series - Narrow DIN Rail mounting

De	vice	Output power	Available output voltages	Input VAC	Input VDC	Approvals	Dimensions L x W x D mm, (inch)
	SPDM 30	_ 24W /					90 x 22.5 x 100
	SPDM 30/B	30W					(3.54 x 0.885 x 3.937)
	SPDM 50	_ 48W /	12V - 24V	05 074	120 - 375	OL 1310 CI. 2	90 x 30 x 100
	SPDM 50/B	50W	1 Z V - Z4 V	03 - 204	120 - 37 3		(3.54 x 1.181 x 3.937)
	SPDM 75	_ 66W /					90 x 40.50 x 100 (3.54 x 1.594 x 3.937)
	SPDM 75/B	72W					
	SPDM 120		24V	— 90 - 264	107 070		124 x 45 x 119 (4.88 x 1.77 x 4.69)
The state of the s	SPDC 120	- 120W	12V - 24V	90 - 204	127 - 370	CE	124 x 32 x 119 (4.88 x 1.26 x 4.69)
A CONTRACTOR OF THE PARTY OF TH	SPDC 240	240W	24V	85 - 264	127 - 375		124 × 45 × 119 (4.88 × 1.77 × 4.69)

SPM Series - LOW profile DIN

De	vice	Output power	Available output voltages	Input Input VAC VDC	Approvals	Dimensions L x W x D mm, (inch)	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SPM 1	7.5 - 10 - 10 - 10W					91 x 18 x 56.5 (3.58 x 0.709 x 2.22)
	SPM 3	15 - 25 - 30 - 30W				CE, TUV, cULus, UL 1310 Cl2, Clase I Div 2 5 CE, TUV, cULus, Clase I Div 2	91 x 52 x 55.5 (3.58 x 2.047 x 2.185)
2/	SPM 4	35 - 54 - 60 - 60W	5V - 12V - 15V - 24V	90 - 264 1	20 - 375		91 x 71x 56.5 (3.58 x 2.8 x 2.22)
	SPM 5	60 - 72 - 75 - 91W					91 x 90 x 57 (3.58 x 3.54 x 2.24)
200 mmm	SPM 5 100W	100W			-		91 × 90 × 57 (3.58 × 3.54 × 2.24)



Product selection tables

SPPC Series - Enclosed type

	evice	Output power	Available output voltages	Input VAC	Input VDC	Approvals	Dimensions L x W x D mm, (inch)
13,05	SPPC 25W	25W	577 1077 0 477				79 x 51 x 28.8 (3.11 x 2 x 1.13)
	SPPC 35W	35W	- 5V - 12V - 24V	90 - 264	127 - 370	CE, cURus	101.6 x 63.5 x 33 (4 x 2.5 x 1.29)
	SPPC 50W	50W	5V - 12V - 15V - 24V - 48V	-			99 x 82 x 35 (3.89 x 3.22 x 1.37)
	SPPC 75W	75W	-				129 × 98 × 38 (5,07 × 3.85 × 1.49)
	SPPC 150W/F	150W	5V - 12V - 15V - 24V - 48V				194 x 98 x 38 (7,63 x 3.85 x 1.49)
	SPPC 200W	200W	5V - 12V - 24V - 36V - 48V		-		
in the second	SPPC 240W	240W	12V - 24V	85 - 264	120 - 370		199 x 99 x 50 (7.83 x 3.89 x 1.96)
160	SPPC 320W	320W	5V - 12V - 24V - 48V	•			
	SPPC 480W	480W	- 12V - 24V - 48V				
	SPPC 600W	600W	124 - 244 - 404	90 - 264	127 - 370		226 x 116.5 x 41 (8.89 x4.58 x1.61)
11	SPPC 800W	800W	24V - 48V				(

Redundancy modules

Device		Output power	Available output voltages	Input VAC	Input VDC	Approvals	Dimensions L x W x D mm, (inch)
0 600	SPD RM	-	24	-	01.00	CE, TUV, cULus	90 x 54 x 114 (3.6 x 2.13 x 4.49)
	SPM2RM	-	24	-	21 - 28	CE	91 x 35 x 56.55 (3.58 x 1.37 x 2.22)

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