



OUTPUT						
Series	90W	100W	120W	150W	200W	240W
SPD	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V
SPDM						
SPDC						
SPM						
SPPC						

Series	300W	320W	480W	600W	800W	960W
SPD	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V
SPDM						
SPDC						
SPM						
SPPC						



SPM series – Step shaped power supply
The low profile design makes the SPM ideal for electric distribution panels, for example in home and building automation applications. The single phase input SPM provides output power from 7.5W to 100W, and comes with UL1310 Class and ISA Class 1 Division 2 approvals.



SPPC series – Enclosed type power supply
Enclosed metal casing power supplies are durable and economical, providing an excellent choice for customers, especially OEM machine makers, for any application. Power ratings range from 25W to 800W: in addition, the SPPC comes with PFC from 100W upwards. It comes with CE and UL approvals to cater to customers' requirements.



Battery chargers, UPS and Redundancy modules
Carlo Gavazzi provides the ideal selection of special devices for any critical applications. The Battery Chargers and UPS optimise the backup battery performance through controlled charging/discharging, while our advanced SPUBC integrates a power supply, battery charger and UPS into a single unit. The Redundancy Modules guarantee the continuity of the DC supply to applications with zero downtime, enabling a consistent output even when a source is faulty.

Series	CE	UL60950-1	UL508	UL1310 Class 2	ISA Class 1 Div 2	TUV EN60950	TUV EN601558	CCC
SPD	■	■	■	■	■	■	■	■
SPDM	■	■	■	■	■	■	■	■
SPDC	■	■	■	■	■	■	■	■
SPM	■	■	■	■	■	■	■	■
SPPC	■	■	■	■	■	■	■	■
SP_RM	■	■	■	■	■	■	■	■
SPMSBC	■	■	■	■	■	■	■	■
SPUC	■	■	■	■	■	■	■	■
SPUBC	■	■	■	■	■	■	■	■

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Overview

Switching power supplies

OVERVIEW SWITCHING POWER SUPPLIES ENG 03/2018
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Overview

Switching power supplies

OUTPUT						
Series	5W	10W	18W	24W	24W - 30W	30W
SPD	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V
SPDM						
SPDC						
SPM						
SPPC						
SPD	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V
SPDM						
SPDC						
SPM						
SPPC						
SPD	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V
SPDM						
SPDC						
SPM						
SPPC						
SPD	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V	5V 12V 15V 24V 48V
SPDM						
SPDC						
SPM						
SPPC						

SPD series – General purpose power supply

The first generation of Carlo Gavazzi power supplies have the greatest range of power ratings available and the highest number of approvals for most industrial applications. The SPD comes in single phase input two phase input, and three phase input model types. It is suitable for demanding applications where dimensions are not an issue; from harsh environments with ISA Class 1 Division 2 to safety low voltage with UL1310 Class 2 approvals (<90W).



SPDM series – Medium power supply

This family of single phase input power supplies features a reduced footprint, saving up to 30% space compared to similar devices. There are no frills, just standard features with high performance and high reliability. The power rating ranges from 30W to 120W. The SPDM comes with UL1310 Class 2 approvals for ratings up to 75W.



SPDC series – Advanced compact power supply

This new compact family achieves the highest performance with its advanced features, within the smallest dimensions possible. It is ideal for critical installations where space and reliability are of utmost importance. The SPDC power boost can provide 150% of the rated output power for up to 3 seconds, to support the extra power needed during critical start-ups. The parallel feature provides redundancy in times of breakdown.



Series	Screw terminals	Spring terminals	Detachable terminals	Parallel	Active current sharing	Power boost	Redundancy module	Battery charger/UPS
SPD	■	■	■	■	■			
SPDM	■	■	■	■	■			
SPDC	■	■	■	■	■	■		
SPM	■	■	■	■	■			
SPPC	■	■	■	■	■			
SP_RM	■	■	■	■	■		■	
SPMSBC	■	■	■	■	■			■
SPUC	■	■	■	■	■			■
SPUBC	■	■	■	■	■			■

CARLO GAVAZZI Automation Components. Specifications are subject to change without notice. Illustrations are for example only.

Overview

Switching power supplies



SPD Series - Single phase - DIN rail mounting



Device	SPD 5W	SPD 10W	SPD 18W	SPD 30W
Output power	5W	10W	18W	30W
Available output voltage	5V - 12V - 15V - 24V	5V - 12V - 15V - 24V	5V - 12V - 15V - 24V	5V - 12V - 15V - 24V
Input VAC	90 - 264	90 - 264	90 - 264	85 - 264
Input VDC	120 - 370	120 - 375	120 - 375	90 - 375
Approvals	CE - TUV - cULus - UL 1310 Cl. 2 - Class I Div 2	CE - TUV - cULus - UL 1310 Cl. 2 - Class I Div 2	CE - TUV - cULus - UL 1310 Cl. 2 - Class I Div 2	CE - TUV - cULus - UL 1310 Cl. 2 - Class I Div 2
Dimensions	90 x 22.5 x 114 (3.60" x 0.89" x 4.49")	90 x 40.5 x 114 (3.60" x 1.59" x 4.49")	90 x 40.5 x 114 (3.60" x 1.59" x 4.49")	90 x 40.5 x 114 (3.60" x 1.59" x 4.49")
Efficiency	87%	76%	86%	86%
DC ok	NO	NO	NO	YES
Options	Spring terminal [B]	Spring terminal [B]	Spring terminal [B]	Spring terminal [B]

Switching power supplies

SPD Series - Bi/Three phase - DIN rail mounting



Device	SPD 100W/2	SPD 120W/3	SPD 240W/3	SPD 480W/3	SPD 960W/3
Output power	100W	120W	240W	480W	960W
Available output voltage	12V - 24V - 48V	12V - 24V	24V - 48V	24V - 48V	24V - 48V
Input VAC	340 - 575	340 - 575	340 - 575	340 - 575	340 - 575
Input VDC	340 - 820	340 - 820	340 - 820	340 - 820	340 - 820
Approvals	CE - TUV - cULus - Class I Div 2	CE - TUV - cULus - Class I Div 2	CE - TUV - cULus - Class I Div 2	CE - TUV - cULus - Class I Div 2	CE - TUV - cULus - Class I Div 2
Dimensions	90 x 54 x 14.4 (3.6" x 2.13" x 4.49")	124 x 74.3 x 118.8 (4.88" x 2.92" x 4.68")	124 x 89 x 118.8 (4.88" x 3.5" x 4.68")	124 x 150 x 118.8 (4.88" x 5.91" x 4.68")	126.2 x 275.8 x 118.8 (4.97" x 10.86" x 4.68")
Efficiency	89%	89%	91%	91%	93%
DC ok	YES	YES	YES	YES	YES
Options					Without current sharing [L]

Switching power supplies

SPM Series - Single phase - DIN rail mounting



Device	SPM 1	SPM 3	SPM 4	SPM 5
Output power				
Available output voltage	5V - 12V - 15V - 24V	5V - 12V - 15V - 24V	5V - 12V - 15V - 24V	5V - 12V - 15V - 24V
Input VAC	90 - 264	90 - 264	90 - 264	90 - 264
Input VDC	120 - 375	120 - 375	120 - 375	120 - 375
Approvals	CE - TUV - cULus - UL 1310 Cl. 2 - Class I Div 2	CE - TUV - cULus - UL 1310 Cl. 2 - Class I Div 2	CE - TUV - cULus - UL 1310 Cl. 2 - Class I Div 2	CE - TUV - cULus - Class I Div 2
Dimensions	91 x 18 x 56.5 (3.58" x 0.709" x 2.22")	91 x 52 x 55.5 (3.58" x 2.047" x 2.185")	91 x 71 x 56.5 (3.58" x 2.8" x 2.22")	91 x 90 x 57 (3.58" x 3.54" x 2.24")
Efficiency	80%	83%	86%	89%
Options				UL 1310 Class 2 [S]

Switching power supplies

SPPC Series - Single phase - Panel mounting



Device	SPPC 320W	SPPC 480W	SPPC 600W	SPPC 800W
Output power	320W	480W	600W	80W
Available output voltage	5V - 12V - 24V - 48V	12V - 24V - 36V - 48V	12V - 24V - 36V - 48V	24V - 48V
Input VAC	85 - 264	90 - 264	90 - 264	90 - 264
Input VDC	120 - 370	127 - 370	127 - 370	127 - 370
Approvals	CE - cURus	CE - cURus	CE - cURus	CE - cURus
Dimensions	199 x 99 x 50 (7.83" x 3.89" x 1.96")	226 x 116.5 x 41 (8.89" x 4.58" x 1.61")	226 x 116.5 x 41 (8.89" x 4.58" x 1.61")	226 x 116.5 x 41 (8.89" x 4.58" x 1.61")
Efficiency	87%	90%	90%	90%
Features	Compact, PFC	Compact, PFC	Compact, PFC	Compact, PFC

SPD Series - Single phase - DIN rail mounting



Device	SPD 60W	SPD 90W	SPD 100W
Output power	60W	90W	100W
Available output voltage	5V - 12V - 15V - 24V	24V	12V - 24V - 48V
Input VAC	85 - 264	90 - 264	90 - 264
Input VDC	90 - 375	120 - 375	120 - 375
Approvals	CE - TUV - cULus - UL 1310 Cl. 2 - Class I Div 2	CE - TUV - cULus - UL 1310 Cl. 2 - Class I Div 2	CE - TUV - cULus - Class I Div 2
Dimensions	90 x 40.5 x 114 (3.60" x 1.59" x 4.49")	90 x 54 x 114 (3.60" x 2.13" x 4.49")	90 x 54 x 114 (3.60" x 2.13" x 4.49")
Efficiency	89%	86%	88%
DC ok	YES	YES	YES
Options	Spring terminal [B]	Detach terminal [B] Plastic housing [L]	YES

SPDM Series - Single phase - DIN Rail mounting



Device	SPDM 30	SPDM 50	SPDM 75	SPDM 120	SPDM 240
Output power	24W - 30W	48W - 50W	66W - 72W	120W	240W
Available output voltage	12V - 24V	12V - 24V	12V - 24V	12V - 24V - 48V	24V - 48V
Input VAC	85 - 264	85 - 264	85 - 264	90 - 264	90 - 264
Input VDC	120 - 375	120 - 375	120 - 375	127 - 370	127 - 370
Approvals	CE - TUV - cULus - UL 1310 Cl. 2	CE - TUV - cULus - UL 1310 Cl. 2	CE - TUV - cULus - UL 1310 Cl. 2	CE - cULus	CE
Dimensions	90 x 100 x 22.5 (3.54" x 3.937" x 0.885")	90 x 100 x 30 (3.54" x 3.937" x 1.181")	90 x 100 x 40.50 (3.54" x 3.937" x 1.594")	124 x 119 x 45 (4.88" x 4.69" x 1.77")	124 x 127 x 70 (4.88" x 5.00" x 2.75")
Efficiency	86%	87%	87%	88%	88%
DC ok	NO	NO	NO	NO	NO
Options	Spring terminal [B]	Spring terminal [B]	Spring terminal [B]		

SPPC Series - Single phase - Panel mounting



Device	SPPC 25W	SPPC 35W	SPPC 50W	SPPC 75W
Output power	25W	35W	50W	75W
Available output voltage	5V - 12V - 24V	5V - 12V - 24V	5V - 12V - 15V - 24V - 48V	5V - 12V - 24V - 48V
Input VAC	90 - 264	90 - 264	90 - 264	90 - 264
Input VDC	127 - 370	127 - 370	127 - 370	127 - 370
Approvals	CE - cURus	CE - cURus	CE - cURus	CE - cURus
Dimensions	79 x 51 x 28.8 (3.11" x 2" x 1.13")	101.6 x 63.5 x 33 (4" x 2.5" x 1.29")	99 x 82 x 35 (3.89" x 3.22" x 1.37")	129 x 98 x 39 (5.08" x 3.85" x 1.53")
Efficiency	85%	87%	89%	89%

Battery chargers & UPS



Device	SPUBC UPS battery charger	SPUC UPS controller	SPM5 Battery charger
Output power	120W	360W / 720W	30W / 60W
Available output voltage	24V	12V - 24V	12V - 24V
Input VAC	115 - 277		90 - 264
Input VDC		11 - 14V / 22 - 28V	
Approvals	CE - cURus	CE - cURus - cULus listed - TÜV	CE
Dimensions	65 x 115 x 135 (2.56" x 4.53" x 5.31")	90 x 54 x 114 (3.60" x 2.13" x 4.49")	91 x 90 x 57 (3.58" x 3.54" x 2.24")
Mounting	DIN rail	DIN rail	DIN rail

SPD Series - Single phase - DIN rail mounting



Device	SPD 120W N	SPD 240W	SPD 300W	SPD 480W
Output power	120W	240W	300W	480W
Available output voltage	12V - 24V - 48V	12V - 24V	24V - 48V	24V - 48V
Input VAC	90 - 264	90 - 264	90 - 264	90 - 264
Input VDC	210 - 315	120 - 375	120 - 375	120 - 375
Approvals	CE - TUV - cULus - Class I Div 2	CE - TUV - cULus - Class I Div 2	CE - TUV - cULus - Class I Div 2	CE - TUV - cULus - Class I Div 2
Dimensions	125 x 63.5 x 126 (4.92" x 2.5" x 4.96")	124.5 x 83.5 x 123.6 (4.9" x 3.29" x 4.87")	124 x 83.5 x 123.6 (4.88" x 3.29" x 4.87")	124.5 x 175.5 x 12.6 (4.9" x 6.91" x 4.87")
Efficiency	87%	90%	90%	90%
DC ok	YES	YES	YES	YES
Options	Detach terminal [B]	Detach terminal [B]	Detach terminal [B]	Detach terminal [B]

SPDC Series - Single phase - DIN Rail mounting



Device	SPDC 120	SPDC 240	SPDC 480
Output power	120W	240W	480W
Available output voltage	12V - 24V	24V	24V - 48V
Input VAC	90 - 264	85 - 264	90 - 264
Input VDC	127 - 370	127 - 375	130 - 350
Approvals	CE - cULus	CE - cULus	CE - cULus
Dimensions	124 x 119 x 32 (4.88" x 4.69" x 1.26")	124 x 119 x 45 (4.88" x 4.69" x 1.77")	124 x 127 x 70 (4.88" x 5.00" x 2.75")
Efficiency	91%	91%	93%
DC ok	YES	YES	YES

SPPC Series - Single phase - Panel mounting



Device	SPPC 150W/F	SPPC 200W	SPPC 240W
Output power	150W	200W	240W
Available output voltage	5V - 12V - 15V - 24V - 48V	5V - 12V - 24V - 48V	12V - 24V
Input VAC	86 - 264	85 - 264	85 - 264
Input VDC	120 - 370	120 - 370	120 - 370
Approvals	CE - cURus	CE - cURus	CE - cURus
Dimensions	160 x 98 x 38 (6.29" x 3.85" x 1.49")	199 x 99 x 50 (7.83" x 3.89" x 1.96")	199 x 99 x 50 (7.83" x 3.89" x 1.96")
Efficiency	87%	87%	86%
Features	Active PFC [F]	Compact, PFC	Compact, PFC

Redundancy modules



Device	SPD RM	SPM RM
Output current	20	10
Available output voltage	24	24
Input VDC	21 - 28	21 - 28
Approvals	CE, TUV, cULus	CE
Dimensions	90 x 54 x 114 (3.6" x 2.13" x 4.49")	91 x 35 x 56.55 (3.58" x 1.37" x 2.22")
Mounting	DIN rail	DIN rail