



Overview

MFP **AUTOMATION**
ENGINEERING

**Switching
power supplies**



Overview

Switching power supplies

OUTPUT																									
Series	5 W					10 W					18 W					24 W					30 W				
	5 V	12 V	15 V	24 V	48 V	5 V	12 V	15 V	24 V	48 V	5 V	12 V	15 V	24 V	48 V	5 V	12 V	15 V	24 V	48 V	5 V	12 V	15 V	24 V	48 V
SPD	▼	▼	▼	▼		▼	▼	▼	▼		▼	▼	▼	▼							▼	▼		▼	▼
SPDM																						▼			▼
SPDC																									
SPMA						▼	▼	▼	▼							▼					▼		▼		
SPPC																▼	▼	▼	▼						
SPP1											▼	▼	▼	▼						▼					
Series	100 W					120 W					150 W					200 W					240 W				
	5 V	12 V	15 V	24 V	48 V	5 V	12 V	15 V	24 V	48 V	5 V	12 V	15 V	24 V	48 V	5 V	12 V	15 V	24 V	48 V	5 V	12 V	15 V	24 V	48 V
SPD		▼		▼	▼		▼		▼	▼														▼	▼
SPDM							▼		▼	▼						▼									
SPDC							▼		▼															▼	
SPMA				▼																					
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 (<90 W).



SPDM series – Medium power supply

This family of single phase input power supplies feature 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 30 W to 240 W. The SPDM comes with UL1310 Class 2 approvals for ratings up to 75 W.



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	▼			▼		▼		
SPMA	▼							
SPPC	▼							
SPD RM	▼						▼	
SPM5BC	▼							▼
SPUC	▼							▼
SPUBC	▼			▼		▼		▼

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

OUTPUT																										
Series	35 W					50 W					60 W					75 W					90 W					
	5 V	12 V	15 V	24 V	48 V	5 V	12 V	15 V	24 V	48 V	5 V	12 V	15 V	24 V	48 V	5 V	12 V	15 V	24 V	48 V	5 V	12 V	15 V	24 V	48 V	
SPD											▼	▼		▼	▼										▼	
SPDM							▼			▼							▼			▼						
SPDC																										
SPMA					▼		▼							▼	▼							▼	▼	▼		
SPPC	▼	▼	▼	▼		▼	▼	▼	▼	▼									▼	▼						
SPP1		▼	▼	▼		▼						▼	▼	▼												
Series	300 W					320 W					480 W					600 W					800 W					
	5 V	12 V	15 V	24 V	48 V	5 V	12 V	15 V	24 V	48 V	5 V	12 V	15 V	24 V	48 V	5 V	12 V	15 V	24 V	48 V	5 V	12 V	15 V	24 V	48 V	
SPD				▼	▼										▼	▼										
SPDM																										
SPDC															▼	▼										
SPMA																										
SPPC						▼	▼		▼	▼		▼		▼	▼	▼		▼		▼	▼				▼	▼



SPMA series - Low-profile DIN rail power supplies for building automation and electric car battery chargers

The SPMA series is a very compact DIN rail power supply designed for electrical panels with limited space. The SPMA series consists of 3 frame sizes, starting from 1 DIN (17.5 mm) for the 15 W to a maximum of 4 DIN (70 mm) for the 100 W model. The low-profile design of SPMA makes it ideal for applications such as building automation and electrical vehicle charging stations as it is designed with 4 kVAC isolation voltage.



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 25 W to 800 W: in addition, the SPPC comes with PFC from 100 W 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.

	UL60950-1	UL62368-1	UL508	UL1310 Class 2	ISA Class1 Div 2	CE	TUV-EN60950	TUV-EN601558	CCC
SPD	▼		▼	▼	▼	▼	▼	▼	▼
SPDM	▼		▼	NO SPD M12751/B		▼			
SPDC	▼		▼			▼			
SPMA		▼	▼	SPMA up to 91.92 W	▼	▼			
SPPC	▼					▼			

Overview

Switching power supplies

SPD Series - Single phase - DIN rail mounting



Device	SPD 5W	SPD 10W	SPD 18W	SPD 30W
Output power	5 W	10 W	18 W	30 W
Available output voltage DC	5 V - 12 V - 15 V - 24 V	5 V - 12 V - 15 V - 24 V	5 V - 12 V - 15 V - 24 V	5 V - 12 V - 15 V - 24 V
Input AC	90...264 V	90...264 V	90...264 V	85...264 V
Input DC	120...370 V	120...375 V	120...375 V	90...375 V
Approvals	CE - TÜV - cULus - UL 1310 Cl. 2 - Class I Div 2	CE - TÜV - cULus - UL 1310 Cl. 2 - Class I Div 2	CE - TÜV - cULus - UL 1310 Cl. 2 - Class I Div 2	CE - TÜV - cULus - UL 1310 Cl. 2 - Class I Div 2
Dimensions	90 x 22.5 x 114 mm (3.60" x 0.89" x 4.49")	90 x 22.5 x 114 mm (3.60" x 1.59" x 4.49")	90 x 22.5 x 114 mm (3.60" x 1.59" x 4.49")	90 x 40.5 x 114 mm (3.60" x 1.59" x 4.49")
Efficiency	87%	76%	77%	86%
DC ok	NO	NO	NO	YES
Options	Spring terminal [B]	Spring terminal [B]	Spring terminal [B]	Spring terminal [B]

SPD Series - Single phase - DIN rail mounting



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

SPD Series - Single phase - DIN rail mounting



Device	SPD 120W N	SPD 240W	SPD 300W	SPD 480W
Output power	120 W	240 W	300 W	480 W
Available output voltage DC	12 V - 24 V - 48 V	12 V - 24 V	24 V - 48 V	24 V - 48 V
Input AC	90...264 V	90...264 V	90...264 V	90...264 V
Input DC	210...315 V	120...375 V	120...375 V	120...375 V
Approvals	CE - TÜV - cULus - Class I Div 2	CE - TÜV - cULus - Class I Div 2	CE - TÜV - cULus - Class I Div 2	CE - TÜV - cULus - Class I Div 2
Dimensions	125 x 63.5 x 126 mm (4.92" x 2.5" x 4.96")	124.5 x 83.5 x 123.6 mm (4.9" x 3.29" x 4.87")	124 x 83.5 x 123.6 mm (4.88" x 3.29" x 4.87")	124.5 x 175.5 x 126 mm (4.9" x 6.91" x 4.87")
Efficiency	87%	90%	90%	90%
DC ok	YES	YES	YES	YES
Options	Detachable terminals [B]	Detachable terminals [B]	Detachable terminals [B]	Detachable terminals [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	100 W	120 W	240 W	480 W	960 W
Available output voltage DC	12 V - 24 V - 48 V	12 V - 24 V	24 V - 48 V	24 V - 48 V	24 V - 48 V
Input AC	340...575 V	340...575 V	340...575 V	340...575 V	340...575 V
Input DC	340...820 V	340...820 V	340...820 V	340...820 V	340...820 V
Approvals	CE - TÜV - cULus - Class I Div 2	CE - TÜV - cULus - Class I Div 2	CE - TÜV - cULus - Class I Div 2	CE - TÜV - cULus - Class I Div 2	CE - TÜV - cULus - Class I Div 2
Dimensions	90 x 54 x 14.4 mm (3.6" x 2.13" x 0.57")	124 x 74.3 x 118.8 mm (4.88" x 2.92" x 4.68")	124 x 89.1 x 118.8 mm (4.88" x 3.51" x 4.68")	124 x 150 x 118.8 mm (4.88" x 5.91" x 4.68")	126.2 x 275.8 x 118.8 mm (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]

SPDM Series - Single phase - DIN Rail mounting



Device	SPDM 30	SPDM 50	SPDM 75	SPDM 120W	SPDM 240W
Output power	24 W - 30 W	48 W - 50 W	66 W - 72 W	120 W	240 W
Available output voltage DC	12 V - 24 V	12 V - 24 V	12 V - 24 V	12V - 24 V - 48 V	24 V - 48 V
Input AC	85...264 V	85...264 V	85...264 V	90...264 V	90...264 V
Input DC	120...375 V	120...375 V	120...375 V	127...370 V	127...370 V
Approvals	CE - TÜV - cULus - UL 1310 Cl. 2	CE - TÜV - cULus - UL 1310 Cl. 2	CE - TÜV - cULus - UL 1310 Cl. 2 (only for 24 VDC)	CE - cULus - cURus	CE
Dimensions	90 x 100 x 22.5 mm (3.54" x 3.937" x 0.885")	90 x 100 x 30 mm (3.54" x 3.937" x 1.181")	90 x 100 x 40.5 mm (3.54" x 3.937" x 1.594")	124 x 119 x 45 mm (4.88" x 4.69" x 1.77")	124 x 127 x 70 mm (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]		

SPDC Series - Single phase - DIN Rail mounting



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

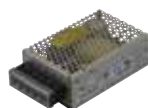
Switching power supplies

SPMA Series - Single phase - DIN rail mounting



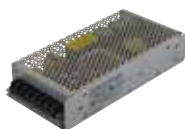
Device	SPMA 15	SPMA 30	SPMA 60	SPMA 100
Output power	12...15 W	25...36 W	54...60 W	85...100 W
Available output voltage DC	5 V - 12 V - 15 V - 24 V	5 V - 12 V - 15 V - 24 V	12 V - 15 V - 24 V	12 V - 15 V - 24 V
Input AC	85...264 V	85...264 V	85...264 V	85...264 V
Input DC	120...350 V	120...350 V	120...350 V	120...350 V
Approvals	CE - cULus - cURus - UL1310 Class 2 - UL121201 Class I Div2	CE - cULus - cURus - UL1310 Class 2 - UL121201 Class I Div2	CE - cULus - cURus - UL1310 Class 2 - UL121201 Class I Div2	CE - cULus - cURus - UL1310 Class 2 (up to 91.92 W) - UL121201 Class I Div2
Dimensions	91 x 18 x 63 mm (3.58" x 0.71" x 2.48")	91 x 52.5 x 63 mm (3.58" x 2.07" x 2.48")	91 x 52.5 x 63 mm (3.58" x 2.07" x 2.48")	91 x 70 x 63 mm (3.58" x 2.76" x 2.48")
Efficiency	85%	88%	89%	89%
DC ok (LED indication)	YES	YES	YES	YES
Options	Conformal coating [SCC]	Conformal coating [SCC]	Conformal coating [SCC]	Conformal coating [SCC]

SPPC Series - Single phase - Panel mounting



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

SPPC Series - Single phase - Panel mounting



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

Switching power supplies

SPPC Series - Single phase - Panel mouting



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

Battery chargers & UPS



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

Redundancy modules



Device	SPD RM
Output current	20 A
Available output voltage DC	24 V
Input DC	21...28 V
Approvals	CE - TÜV - cULus
Dimensions	90 x 54 x 114 mm (3.6" x 2.13" x 4.49")
Mounting	DIN rail



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