

**CARLO GAVAZZI**  
Automation Components



# SPD Switching Power Supplies



CARLO GAVAZZI presents a new range of power supplies especially designed for the automation market. The wide range of supply voltages and DC output voltages/power provide a multitude of choices for all low power electrical or electronic devices commonly used in automatic machinery. Components such as sensors, electromechanical relays, contactors, solid state relays, timers, temperature controllers, PLCs, process controllers, DC motors, solenoids, displays, etc. now have a reliable power source.

## HIGH EFFICIENCY

The power supply's average efficiency and ripple voltage ratings are comparable or better than most power supplies on the market.

## PRODUCT LINE

The product range features several different output power ratings, from 5 to 240W. All models feature a universal 100 / 240Vac input. The existing product offering is single phase, but three phase versions are currently in development, 480W version will also be available soon.

## ADJUSTABLE OUTPUT

All models provide a front potentiometer in order to adjust the output voltage. This useful feature can provide a voltage surplus when line voltage losses cause low voltages to the load.

## VISUAL AND ELECTRICAL INDICATIONS

Models up to 18W are equipped with two front LEDs, which provide a visual indication of the 'power out' enabled and 'low voltage' on the output. All other sizes are equipped with an LED indication and also with an output "Power Ready" signal. This signal could be used by other electronic devices or to power an alarm (this feature is only available on 24VDC output versions).

## PARALLEL CONNECTION

Parallel connection is a standard feature with the 240W versions, and optional on the 120W version. To simplify the parallel connection and to use smaller conductors, all power supplies, from 30W up, are equipped with a double connection for both the '+' and the '-' terminals. Furthermore, it is possible to choose the connection type: screw terminals or removable connectors. On smaller sizes, with plastic housing, screw terminals are standard, but spring terminals are optional.

## POWER FACTOR CORRECTION (PFC)

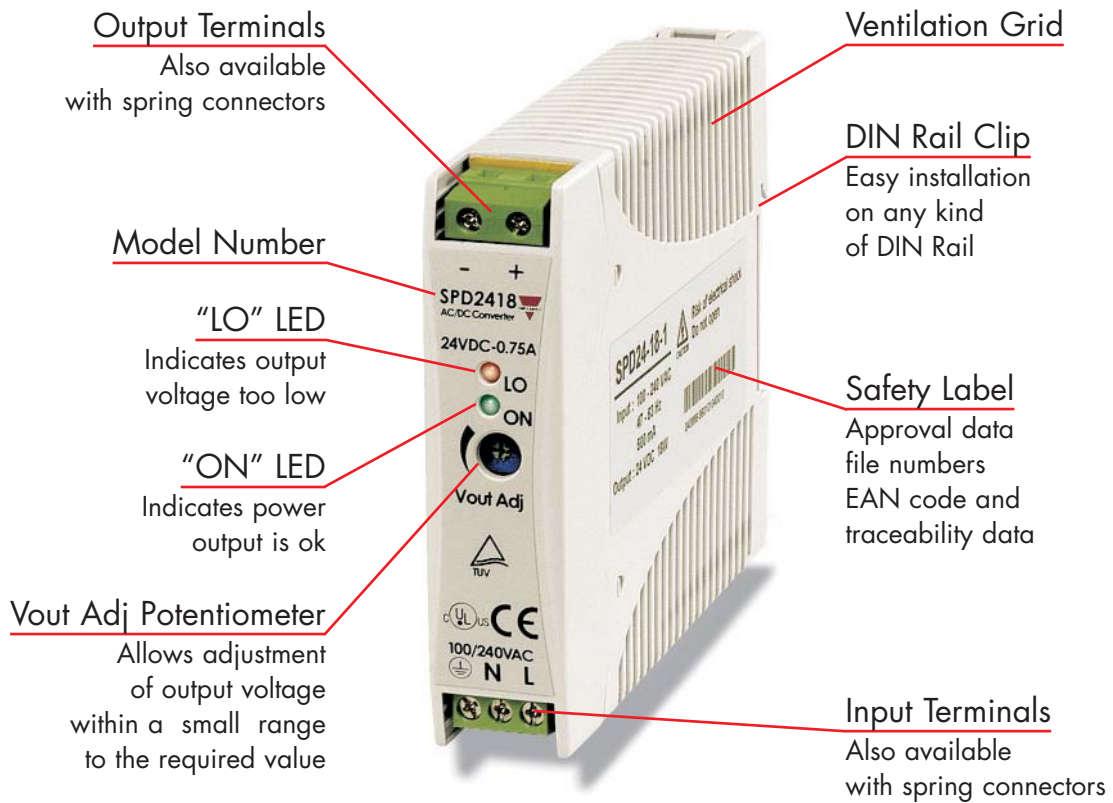
The PFC function is a standard feature on the 240W model and available upon request on the 120W models.

## APPROVALS AND WARRANTY

All SPD Power Supplies are approved according to UL, cUL, TUV and CE safety standards: UL class 2 recognised and Class B for the emissions according to European standards.

All Models feature a Two Year Warranty





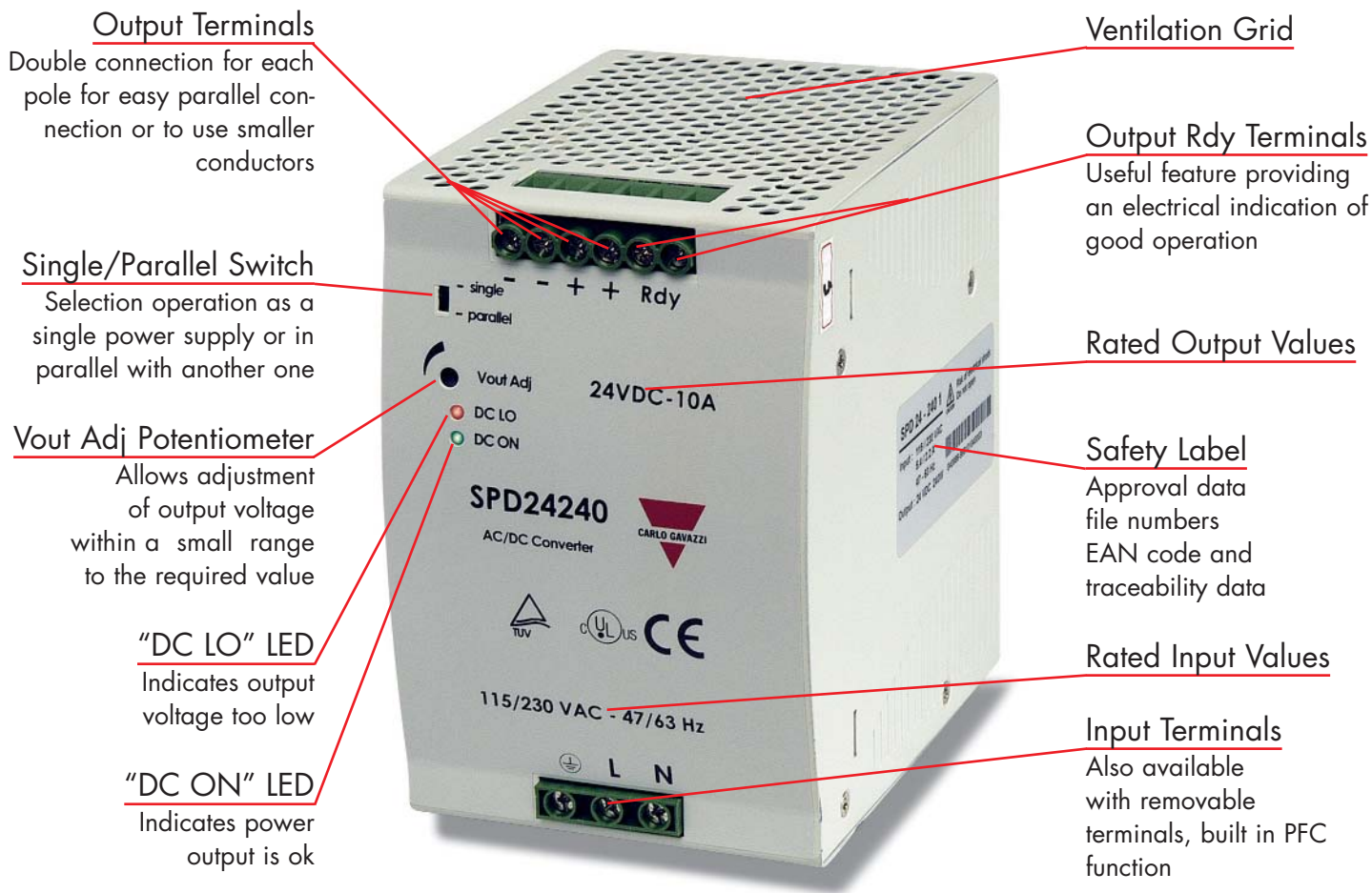
## SPD 5 / 10 / 18

- 5, 10 and 18W Switching Power Supplies
- 22.5mm wide, plastic enclosure
- DIN rail mounting
- Screw terminal or spring terminal connections
- Input voltage: 90-265VAC or 120-370VDC
- Available output voltages: 5, 12, 15 or 24 VDC
- Output voltage adjustment
- Internal noise filter
- Short circuit protection
- Front indication of power 'OK' and Low voltage output
- Operating temperature without derating: -10°C to +60°C



## SPD 30 / 60

- 30 and 60W Switching Power Supplies
- 40.5mm wide, plastic enclosure
- DIN rail mounting
- Screw terminal or spring terminal connections
- Input voltage: 90-265VAC or 120-370VDC
- Available output voltages: 5, 12, 24 and 48VDC
- Output voltage adjustment
- Internal noise filter
- Short circuit protection
- Front indication of power 'OK'
- Output with electrical signal of power 'Ready'
- Operating temperature without derating: -10°C to +60°C



## SPD 120

- 120W Switching Power Supply
- Metal housing
- DIN rail mounting
- Screw terminals or detachable connectors
- Input voltage: 93-264VAC or 210-370VDC (115/230 selectable by switch)
- Available output voltages: 12, 24 and 48VDC
- Output voltage adjustment
- PFC function available on request
- Parallel function available on request (Up to three power supplies)
- Short circuit protection and overload protection
- Front indication of Power 'OK' and 'Output Voltage Low'
- Relay output for power 'Ready' signal
- Operating temperature without derating:  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$



## SPD 240

- 240W Switching Power Supply
- Metal housing
- DIN rail mounting
- Screw terminals or detachable connectors
- Input voltage 93-264VAC or 210-370VDC (115/230 selectable by switch)
- Available output voltages 24 and 48VDC
- Output voltage adjustment
- PFC function standard
- Parallel function standard (up to three power supplies) selectable from front panel
- Short circuit protection, overvoltage and overload protection
- Front indication of Power 'OK' and 'Output Voltage Low'
- Relay Output for power 'Ready' signal
- Operating temperature without derating:  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$



Part Number	Description	Vin VAC	Vout VDC	Iout A
<b>SP D 05 05 1</b>	Switching Power Supply 5W, DIN Rail	100 - 240	5	1
<b>SP D 05 05 1 B</b>	Switching Power Supply 5W, DIN Rail Spring terminals	100 - 240	5	1
<b>SP D 12 05 1</b>	Switching Power Supply 5W, DIN Rail	100 - 240	12	0.42
<b>SP D 12 05 1 B</b>	Switching Power Supply 5W, DIN Rail, Spring terminals	100 - 240	12	0.42
<b>SP D 15 05 1</b>	Switching Power Supply 5W, DIN Rail	100 - 240	15	0.34
<b>SP D 15 05 1 B</b>	Switching Power Supply 5W, DIN Rail, Spring terminals	100 - 240	15	0.34
<b>SP D 24 05 1</b>	Switching Power Supply 5W, DIN Rail	100 - 240	24	0.21
<b>SP D 24 05 1 B</b>	Switching Power Supply 5W, DIN Rail, Spring terminals	100 - 240	24	0.21
<b>SP D 05 10 1</b>	Switching Power Supply 10W, DIN Rail	100 - 240	5	2
<b>SP D 05 10 1 B</b>	Switching Power Supply 10W, DIN Rail, Spring terminals	100 - 240	5	2
<b>SP D 12 10 1</b>	Switching Power Supply 10W, DIN Rail	100 - 240	12	0.84
<b>SP D 12 10 1 B</b>	Switching Power Supply 10W, DIN Rail, Spring terminals	100 - 240	12	0.84
<b>SP D 15 10 1</b>	Switching Power Supply 10W, DIN Rail	100 - 240	15	0.67
<b>SP D 15 10 1 B</b>	Switching Power Supply 10W, DIN Rail, Spring terminals	100 - 240	15	0.67
<b>SPD 24 10 1</b>	Switching Power Supply 10W, DIN Rail	100 - 240	24	0.42
<b>SPD 24 10 1 B</b>	Switching Power Supply 10W, DIN Rail, Spring terminals	100 - 240	24	0.42
<b>SP D 05 18 1</b>	Switching Power Supply 18W, DIN Rail	100 - 240	5	3
<b>SP D 05 18 1 B</b>	Switching Power Supply 18W, DIN Rail, Spring terminals	100 - 240	5	3
<b>SP D 12 18 1</b>	Switching Power Supply 18W, DIN Rail	100 - 240	12	1.5
<b>SP D 12 18 1 B</b>	Switching Power Supply 18W, DIN Rail, Spring terminals	100 - 240	12	1.5
<b>SP D 15 18 1</b>	Switching Power Supply 18W, DIN Rail	100 - 240	15	1.2
<b>SP D 15 18 1 B</b>	Switching Power Supply 18W, DIN Rail, Spring terminals	100 - 240	15	1.2
<b>SP D 24 18 1</b>	Switching Power Supply 18W, DIN Rail	100 - 240	24	0.75
<b>SPD 24 18 1 B</b>	Switching Power Supply 18W, DIN Rail, Spring terminals	100 - 240	24	0.75
<b>SPD 05 30 1</b>	Switching Power Supply 30W, DIN Rail	100 - 240	5	6
<b>SPD 05 30 1 B</b>	Switching Power Supply 30W, DIN Rail, Spring terminals	100 - 240	5	6
<b>SPD 12 30 1</b>	Switching Power Supply 30W, DIN Rail	100 - 240	12	2.5
<b>SPD 12 30 1 B</b>	Switching Power Supply 30W, DIN Rail, Spring terminals	100 - 240	12	2.5
<b>SPD 24 30 1</b>	Switching Power Supply 30W, DIN Rail	100 - 240	24	1.25
<b>SPD 24 30 1 B</b>	Switching Power Supply 30W, DIN Rail, Spring terminals	100 - 240	24	1.25
<b>SPD 48 30 1</b>	Switching Power Supply 30W, DIN Rail	100 - 240	48	0.625
<b>SPD 48 30 1 B</b>	Switching Power Supply 30W, DIN Rail, Spring terminals	100 - 240	48	0.625
<b>SPD 05 60 1</b>	Switching Power Supply 60W, DIN Rail	100 - 240	5	10
<b>SPD 05 60 1 B</b>	Switching Power Supply 60W, DIN Rail, Spring terminals	100 - 240	5	10
<b>SPD 12 60 1</b>	Switching Power Supply 60W, DIN Rail	100 - 240	12	5
<b>SPD 12 60 1 B</b>	Switching Power Supply 60W, DIN Rail, Spring terminals	100 - 240	12	5
<b>SPD 24 60 1</b>	Switching Power Supply 60W, DIN Rail	100 - 240	24	2.5
<b>SPD 24 60 1 B</b>	Switching Power Supply 60W, DIN Rail, Spring terminals	100 - 240	24	2.5
<b>SPD 48 60 1</b>	Switching Power Supply 60W, DIN Rail	100 - 240	48	1.25
<b>SPD 48 60 1 B</b>	Switching Power Supply 60W, DIN Rail, Spring terminals	100 - 240	48	1.25
<b>SP D 12 120 1</b>	Switching Power Supply 120W, DIN Rail	100 - 240	12	10

Part Number	Description	Vin VAC	Vout VDC	Iout A
<b>SP D 12 120 1 F</b>	Switching Power Supply 120W, DIN Rail, with PFC	100 - 240	12	10
<b>SP D 12 120 1 P</b>	Switching Power Supply 120W, DIN Rail, with Parallel function	100 - 240	12	10
<b>SP D 12 120 1 FP</b>	Switching Power Supply 120W, DIN Rail, with PFC and Parallel function	100 - 240	12	10
<b>SP D 12 120 1 B</b>	Switching Power Supply 120W, DIN Rail, Removable connectors	100 - 240	12	10
<b>SP D 12 120 1 BF</b>	Switching Power Supply 120W, DIN Rail, Removable connectors and PFC,	100 - 240	12	10
<b>SP D 12 120 1 BP</b>	Switching Power Supply 120W, DIN Rail, Removable connectors and Parallel function,	100 - 240	12	10
<b>SP D 12 120 1 BFP</b>	Switching Power Supply 120W, DIN Rail, Removable connectors, PFC and Parallel function	100 - 240	12	10
<b>SP D 24 120 1</b>	Switching Power Supply 120W, DIN Rail	100 - 240	24	5
<b>SP D 24 120 1 F</b>	Switching Power Supply 120W, DIN Rail, with PFC	100 - 240	24	5
<b>SP D 24 120 1 P</b>	Switching Power Supply 120W, DIN Rail, with Parallel function	100 - 240	24	5
<b>SP D 24 120 1 FP</b>	Switching Power Supply 120W, DIN Rail, with PFC and Parallel function	100 - 240	24	5
<b>SP D 24 120 1 B</b>	Switching Power Supply 120W, DIN Rail, Removable connectors	100 - 240	24	5
<b>SP D 24 120 1 BF</b>	Switching Power Supply 120W, DIN Rail, Removable connectors and PFC,	100 - 240	24	5
<b>SP D 24 120 1 BP</b>	Switching Power Supply 120W, DIN Rail, Removable connectors and Parallel function,	100 - 240	24	5
<b>SP D 24 120 1 BFP</b>	Switching Power Supply 120W, DIN Rail, Removable connectors, PFC and Parallel function	100 - 240	24	5
<b>SP D 48 120 1</b>	Switching Power Supply 120W, DIN Rail	100 - 240	48	2.5
<b>SP D 48 120 1 F</b>	Switching Power Supply 120W, DIN Rail, with PFC	100 - 240	48	2.5
<b>SP D 48 120 1 P</b>	Switching Power Supply 120W, DIN Rail, with Parallel function	100 - 240	48	2.5
<b>SP D 48 120 1 FP</b>	Switching Power Supply 120W, DIN Rail, with PFC and Parallel function	100 - 240	48	2.5
<b>SP D 48 120 1 B</b>	Switching Power Supply 120W, DIN Rail, Removable connectors	100 - 240	48	2.5
<b>SP D 48 120 1 BF</b>	Switching Power Supply 120W, DIN Rail, Removable connectors and PFC,	100 - 240	48	2.5
<b>SP D 48 120 1 BP</b>	Switching Power Supply 120W, DIN Rail, Removable connectors and Parallel function,	100 - 240	48	2.5
<b>SP D 48 120 1 BFP</b>	Switching Power Supply 120W, DIN Rail, Removable connectors, PFC and Parallel function	100 - 240	48	2.5
<b>SP D 24 240 1</b>	Switching Power Supply 240W, DIN Rail, PFC and Parallel function	100 - 240	24	10
<b>SP D 24 240 1 B</b>	Switching Power Supply 240W, DIN Rail, Removable connectors, PFC and Parallel function	100 - 240	24	10
<b>SP D 48 240 1</b>	Switching Power Supply 240W, DIN Rail, PFC and Parallel function	100 - 240	48	5
<b>SP D 48 240 1 B</b>	Switching Power Supply 240W, DIN Rail, Removable connectors, PFC and Parallel function	100 - 240	48	5



**Vydas International Marketing**  
Swan House PBC Lynchborough Rd  
Passfield Hampshire GU30 7SB UK

**Tel: 44(0)1428 751822 Fax: 44(0)1428 751833**  
**Email: info@vydas.co.uk Web: www.vydas.co.uk**

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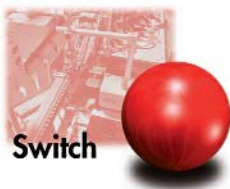
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Email: [info@vydas.co.uk](mailto:info@vydas.co.uk) Web: [www.vydas.co.uk](http://www.vydas.co.uk)