

CARLO GAVAZZI
Automation Components



Switching Power Supplies



SPD Switching Power Supplies



CG presents a new range of power supplies especially designed for the Automation market. The wide range of power and voltages provides DC power for all low power devices commonly used in automatic machinery. Sensors, electromechanical relays, contactors, Solid state relays, Timers, Thermal-regulators, PLC's, controllers, DC motors, Solenoids, displays and all other custom electronics have now a power source on which they can rely.

HIGH EFFICIENCY

The average efficiency is the highest in comparison to most of existing power supplies on the market on the other hand they provide very limited ripples.

PRODUCT LINE

The product line features 7 different sizes of power, from 5 to 240W, all single phase. All models have a universal 100 / 240Vac input. Soon three phase versions will be also available.

ADJUSTABLE OUTPUT

All models provide a front trimmer in order to adjust output voltage. This useful facility will provide a voltage surplus when losses on lines can cause low voltages on the load.

OPTICAL AND ELECTRICAL INDICATIONS

Models up to 18W are equipped with two front LED providing optical indication of power out enabled and low voltage on the Output. All other sizes are equipped, in addition to optical indication, of a physical output with the "Power Rdy." signal. This signal could be used by other electronic devices or to power an alarm.

PARALLEL CONNECTION

Parallel connection is possible on 120W and 240W models. On the 240W it is provided as standard, on request on the 120W version. To ease this operation and in order to use smaller conductors all Power supplies are equipped with a double connection for both the + and the - terminals. Furthermore it is possible to choose the type of connector, terminal screws or removable connectors. On smaller sizes it is possible to optionally order the spring terminals in place of screw terminals.

PFC

PFC function is available as standard on the 240W size and upon request on the 120W. For all other sizes it is not provided.

APPROVALS

All SPD products 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

WARRANTY

All Models 2 years warranty



SPD 5 / 10 / 18

Switching Power supply
Plastic enclosure 22.5mm wide.
DIN rail Mounting
Screw terminals or Spring terminal connection
Input voltage 90 to 265Vac or 120 to 370Vdc
Available output voltages 5Vdc, 12Vdc, 15Vdc and 24Vdc
Available powers 5W, 10W and 18W
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

Switching power supply
Plastic enclosure 40.5mm wide.
DIN Rail Mounting
Screw terminals or Spring terminal connection
Input voltage 90 to 265Vac or 120 to 370Vdc
Available output voltages 5Vdc, 12Vdc, 24Vdc and 48Vdc
Available powers 30W and 60W
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

Switching power supply 120W
Metal Housing
DIN Rail Mounting
Screw terminals or detachable connectors
Input voltage 93 to 264Vac or 210 to 370Vdc (115/230 selectable by switch)
Available output voltages 12Vdc, 24Vdc and 48Vdc
Output voltage adjustment
PFC function available on request
Parallel function available on request (Up to 3 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°C to +60°C



SPD 240

Switching power supply 240W
Metal Housing
DIN Rail Mounting
Screw terminals or detachable connectors
Input voltage 93 to 264Vac or 210 to 370Vdc (115/230 selectable by switch)
Available output voltages 24Vdc and 48Vdc
Output voltage adjustment
PFC function standard
Parallel function standard(up to 3 power supplies) selectable of 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°C to +60°C



CG Part Number	Description	Vin VAC	Vout VDC	Iout A
SP D 05 05 1	Switching Power Supply 5W, DIN Rail	100 - 240	5	1.00
SP D 05 05 1 B	Switching Power Supply 5W, DIN Rail Spring terminals	100 - 240	5	1.00
SP D 12 05 1	Switching Power Supply 5W, DIN Rail	100 - 240	12	0.42
SP D 12 05 1 B	Switching Power Supply 5W, DIN Rail, Spring terminals	100 - 240	12	0.42
SP D 15 05 1	Switching Power Supply 5W, DIN Rail	100 - 240	15	0.34
SP D 15 05 1 B	Switching Power Supply 5W, DIN Rail, Spring terminals	100 - 240	15	0.34
SP D 24 05 1	Switching Power Supply 5W, DIN Rail	100 - 240	24	0.21
SP D 24 05 1 B	Switching Power Supply 5W, DIN Rail, Spring terminals	100 - 240	24	0.21
SP D 05 10 1	Switching Power Supply 10W, DIN Rail	100 - 240	5	2.00
SP D 05 10 1 B	Switching Power Supply 10W, DIN Rail, Spring terminals	100 - 240	5	2.00
SP D 12 10 1	Switching Power Supply 10W, DIN Rail	100 - 240	12	0.84
SP D 12 10 1 B	Switching Power Supply 10W, DIN Rail, Spring terminals	100 - 240	12	0.84
SP D 15 10 1	Switching Power Supply 10W, DIN Rail	100 - 240	15	0.67
SP D 15 10 1 B	Switching Power Supply 10W, DIN Rail, Spring terminals	100 - 240	15	0.67
SPD 24 10 1	Switching Power Supply 10W, DIN Rail	100 - 240	24	0.420
SPD 24 10 1 B	Switching Power Supply 10W, DIN Rail, Spring terminals	100 - 240	24	0.420
SP D 05 18 1	Switching Power Supply 18W, DIN Rail	100 - 240	5	3.00
SP D 05 18 1 B	Switching Power Supply 18W, DIN Rail, Spring terminals	100 - 240	5	3.00
SP D 12 18 1	Switching Power Supply 18W, DIN Rail	100 - 240	12	1.50
SP D 12 18 1 B	Switching Power Supply 18W, DIN Rail, Spring terminals	100 - 240	12	1.50
SP D 15 18 1	Switching Power Supply 18W, DIN Rail	100 - 240	15	1.20
SP D 15 18 1 B	Switching Power Supply 18W, DIN Rail, Spring terminals	100 - 240	15	1.20
SP D 24 18 1	Switching Power Supply 18W, DIN Rail	100 - 240	24	0.750
SPD 24 18 1 B	Switching Power Supply 18W, DIN Rail, Spring terminals	100 - 240	24	0.750
SPD 05 30 1	Switching Power Supply 30W, DIN Rail	100 - 240	5	6.00
SPD 05 30 1 B	Switching Power Supply 30W, DIN Rail, Spring terminals	100 - 240	5	6.00
SPD 12 30 1	Switching Power Supply 30W, DIN Rail	100 - 240	12	2.50
SPD 12 30 1 B	Switching Power Supply 30W, DIN Rail, Spring terminals	100 - 240	12	2.50
SPD 24 30 1	Switching Power Supply 30W, DIN Rail	100 - 240	24	1.250
SPD 24 30 1 B	Switching Power Supply 30W, DIN Rail, Spring terminals	100 - 240	24	1.250
SPD 48 30 1	Switching Power Supply 30W, DIN Rail	100 - 240	48	0.625
SPD 48 30 1 B	Switching Power Supply 30W, DIN Rail, Spring terminals	100 - 240	48	0.625
SPD 05 60 1	Switching Power Supply 60W, DIN Rail	100 - 240	5	10
SPD 05 60 1 B	Switching Power Supply 60W, DIN Rail, Spring terminals	100 - 240	5	10
SPD 12 60 1	Switching Power Supply 60W, DIN Rail	100 - 240	12	5
SPD 12 60 1 B	Switching Power Supply 60W, DIN Rail, Spring terminals	100 - 240	12	5
SPD 24 60 1	Switching Power Supply 60W, DIN Rail	100 - 240	24	2.50
SPD 24 60 1 B	Switching Power Supply 60W, DIN Rail, Spring terminals	100 - 240	24	2.50
SPD 48 60 1	Switching Power Supply 60W, DIN Rail	100 - 240	48	1.25
SPD 48 60 1 B	Switching Power Supply 60W, DIN Rail, Spring terminals	100 - 240	48	1.25
SP D 12 120 1	Switching Power Supply 120W, DIN Rail	100 - 240	12	10

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

Further information on www.carlogavazzi.com/ac

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