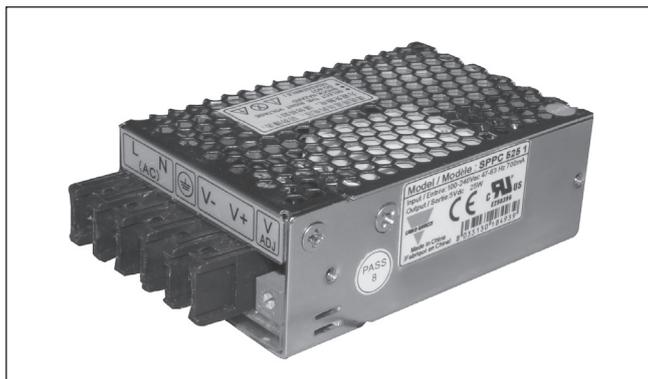


Switching Power Supply Enclosed Type SPPC 25W Series Single Output

CARLO GAVAZZI



- Universal AC input range
- Miniature size, long life, and high power density, efficiency and reliability
- Withstand 300VA surge input for 5 sec.
- Output protections: OLP/OVP/SCP
- Wide operating ambient temperature (-25°C ~ 70°C), 100%@50°C, 60%@70°C
- PCB soldering side with conformal coating

Product Description

Enclosed Switching Power Supply for AC DC and DC DC power requirements. The new SPPC family provides flexible OEM power solutions for industrial control and automation applications,

which in the case of the SPPC 25W ranges from 5V to 24V. All the range carries full certification offering a wide range of universal input and screw terminal connections.

Ordering Key

SP PC XX 25 1

Power supply model _____
 Panel mounted _____
 Output voltage _____
 Output power _____
 Input type (single phase) _____

Approvals



Output Performances

MODEL NO.	INPUT VOLTAGE	OUTPUT VOLTAGE	VOLTAGE ADJ	RATED CURRENT	VOLTAGE ACCURACY
Single Output Models					
SPPC 525 1	90VAC~264VAC	5V	-5%~+10%	5 A	±2.0%
SPPC 1225 1	90VAC~264VAC	12V	-5%~+10%	2.1 A	±1.0%
SPPC 2425 1	90VAC~264VAC	24V	-5%~+10%	1.1 A	±1.0%

Output Data

Current range
SPPC 525 1
SPPC 1225 1
SPPC 2425 1

0~5A
 0~2.1A
 0~1.1A

Ripple and noise -25°~70°C

*Note

SPPC 525 1
SPPC 1225 1; SPPC 2425 1

<50mV
 <120mV

Line regulation

± 0.5%

Load regulation

± 2.0% (SPPC 525 1)
 ± 1.0% (SPPC 1225 1, SPPC 2425 1)

Turn on time (full resistive load)

<2.0s (115VAC input, Full load);
 <1.0s (230VAC input, Full load)

Temperature coefficient

±0.03%/°C

Hold up time

>14ms (115VAC input, Full load);
 >30ms (230VAC input, Full load)

Overshoot and undershoot

<5.0%

* Note: Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 10uF parallel capacitor.

Input Data All specifications are at nominal values, full load, 25°C unless otherwise noticed

Voltage range	90 ~ 264VAC 127 ~ 370VDC	AC current (max.)	0.7A
Frequency range	47-63Hz	Inrush current (cold start)	
Efficiency		115VAC	20A
SPPC 525 1	115VAC, 76%; 230VAC 78%	230VAC	40A
SPPC 1225 1	115VAC, 80%; 230VAC 82%	Leakage current	
SPPC 2425 1	115VAC, 84%; 230VAC 85%	Input-Output	<0.25mA
		Input-PG	<0.75mA

Controls and Protection

Overload (OLP)	105%~150% of rated output current, hiccup mode, auto recovery.	Output short circuit (SCP)	Long-term mode, auto recovery.
Over voltage (OVP)	105%~150% of rated output voltage, constant voltage		

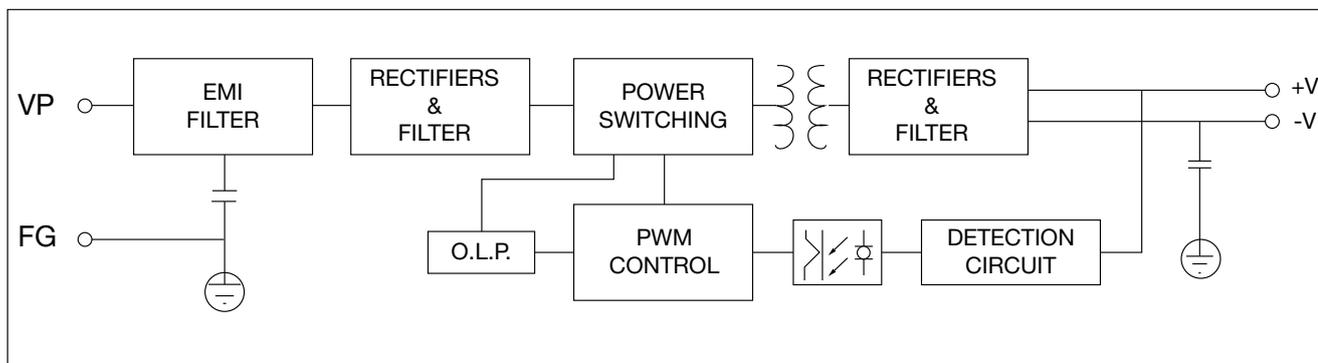
General Data All specifications are at nominal values, full load, 25°C unless otherwise noticed

Ambient temperature	-25°C to +70°C	Switching Frequency	65kHz
Relative humidity	20%~90%RH	MTBF (MIL-HDBK-217F)	More than 200.000 hrs
Storage	-40°C ~ +85°C; 10% ~ 95% RH no condensing.	Case material	Metal
Cooling	Free air convection	Dimensions LxWxD	79 x 51 x 28.8 mm
Insulation resistance I/O	≥100M ohms	Packing	48 PCS/CTN. G.W: 10.4kgs 0.03CBM

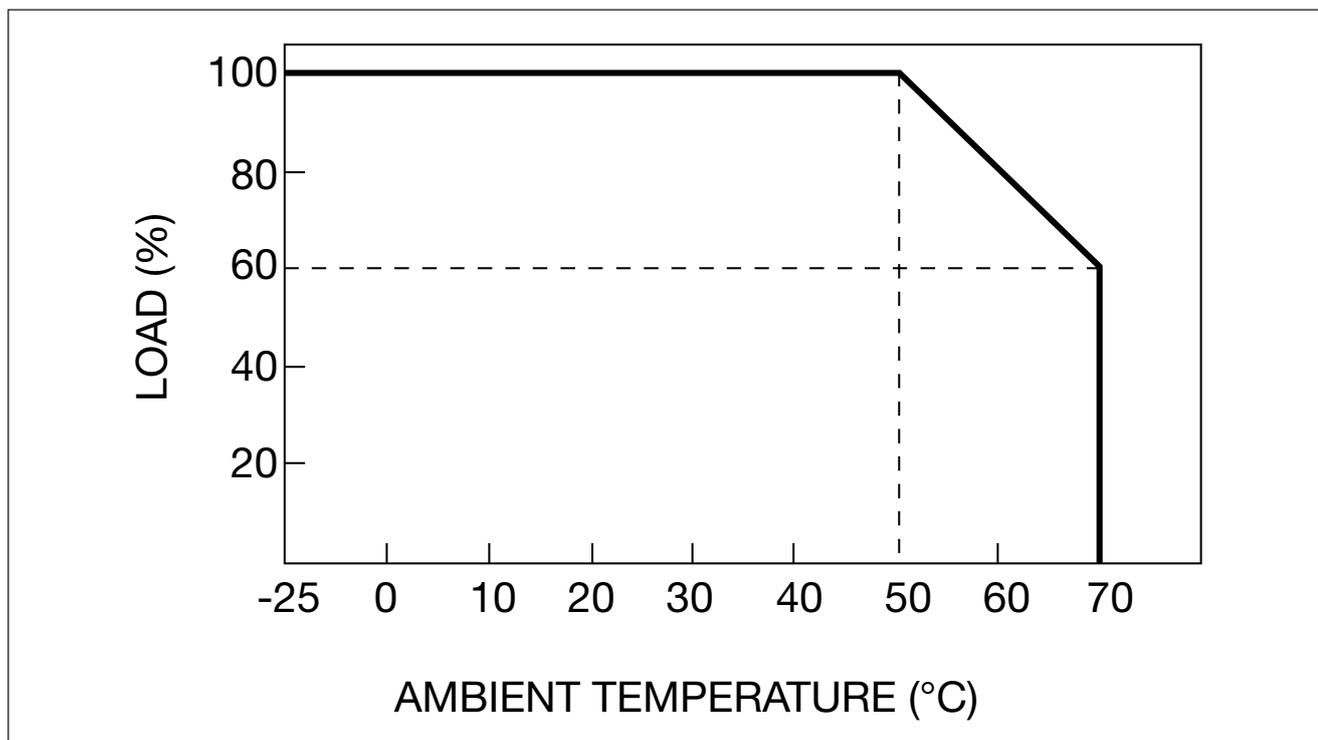
Norms and Standard

Safety standard	UL60950-1 2 nd Ed, IEC 60950-1:2005 (2 nd Ed) ; EN60950-1:2006	Harmonic Current	Compliance to EN61000-3-2, 3
Withstand voltage	Primary-Secondary: 3.0kVAC; ≤10mA. Primary-PG: 1.5kVdc; ≤10mA. Secondary PG: 0.5kVdc	EMC Immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN55024, EN61000-6-2 heavy industry level.

Block Diagram



Derating Curve



Mechanical Drawing

