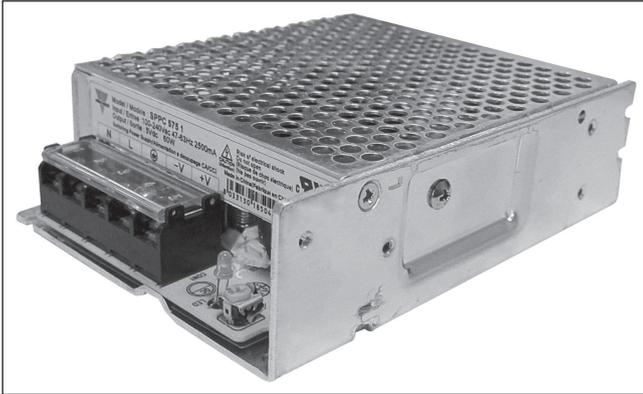


Switching Power Supply Enclosed Type SPPC 75W Series Single Output

CARLO GAVAZZI



- No load power consumption <0.5W
- Miniature size, long life, and high power density, efficiency and reliability
- Universal AC input range
- Withstand 300VA surge input for 5 Sec.
- Output protections: OLP/OVP/SCP
- Wide operating ambient temperature (-25°C~70°C), 100%@50°C, 70%@70°C
- Operating altitude up to 5,000m
- 100% full load burn-in test
- 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 75W ranges from 5V to 48V. All the range carries full certification offering a wide range of universal input and screw terminal connections.

Ordering Key

SP PC XX 75 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 575 1	90VAC~264VAC	5V	-5%~+10%	12 A	±3.0%
SPPC 1275 1	90VAC~264VAC	12V	-5%~+10%	6 A	±3.0%
SPPC 2475 1	90VAC~264VAC	24V	-5%~+10%	3.2 A	±3.0%
SPPC 4875 1	90VAC~264VAC	48V	-5%~+10%	1.62A	±3.0%

Output Data

Current range		Line regulation	± 0.5%
SPPC 575 1	0~12A	Load regulation	± 2.0%
SPPC 1275 1	0~6A	Turn on time	<2.0S (115VAC input, Full load); <1.5S (230VAC input, Full load)
SPPC 2475 1	0~3.2A	Output voltage accuracy	±3.0%
SPPC 4875 1	0~1.62A	Temperature coefficient	±0.03%/°C
Ripple and noise (-25°~70°C)		Hold up time	>20mS (115VAC input, Full load); >50mS (230VAC input, Full load)
*Note		Overshoot and Undershoot	< 5.0%
SPPC 575 1	<80mV		
SPPC 1275 1	<120mV		
SPPC 2475 1; SPPC 4875 1	<200mV		

* 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	90VAC~264VAC 127~370VDC	AC current	<2.5A
Frequency range	47Hz~63Hz	Inrush current (Typical)	<20A@115VAC <40A@230VAC Cold start
Efficiency		Leakage current	
SPPC 575 1	115VAC, 79%; 230VAC 80%	Input - Output	<0.25mA
SPPC 1275 1	115VAC, 84%; 230VAC 85%	Input - PG	<0.75mA
SPPC 2475 1	115VAC, 87%; 230VAC 88%		
SPPC 4875 1	115VAC, 88%; 230VAC 89%		

Controls and Protection

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

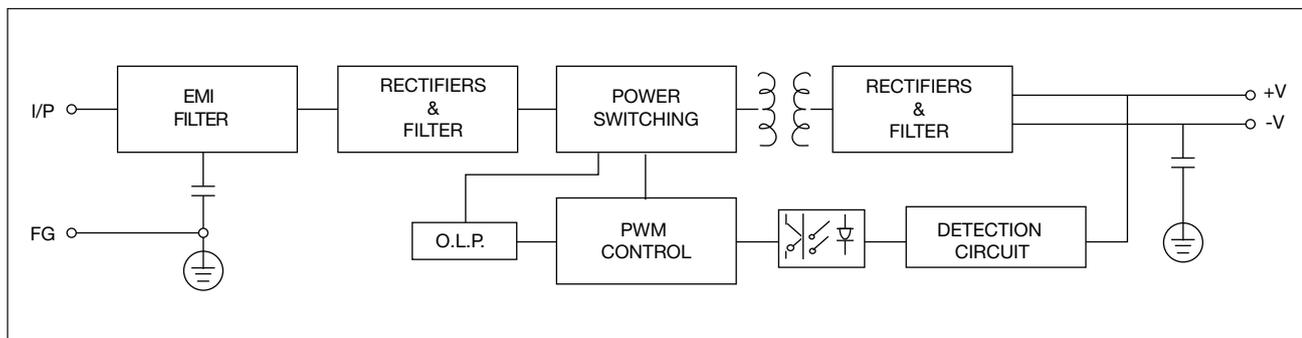
General Data All specifications are at nominal values, full load, 25°C unless otherwise noticed

Ambient temperature	-25°C to +70°C	Insolation resistance I/O	≥100M ohms
Relative humidity	20%~90%RH	MTBF (MIL-HDBK-217F)	More than 200.000 hrs
Storage	-40°C to +85°C; 10% ~ 95% RH no condensing.	Case material	Metal
		Dimensions LxWxD	129 x 98 x 38 mm
Cooling	Free air convection	Packing	30 PCS/CTN. G.W: 14.2kgs 0.044CBM

Norms and Standard

Safety standard	UL60950-1 2 nd Ed; IEC 60950-1:2005 2 nd Ed); EN60950-1:2006	EMC immunity	Compliance to EN61000 -4- 2, 3, 4, 5, 6, 8, 11; EN55024, EN61000-6-2 heavy industry level.
Withstand voltage	Primary-Secondary: 3.0kVAC; ≤10mA. Primary-PG: 1.5kVAC; ≤10mA. Secondary PG: 0.5kVDC; ≤10mA	EMC emission	Compliance to EN55022, Class B
		Harmonic current	Compliance to EN61000-3- 2,-3

Block Diagram



Derating Curve

