Switching Power Supply Enclosed Type SPPC 240W Series Single Output





- Built-in active PFC (Power Factor Protection), PF>0.95
- Compact size
- · Built-in cooling fan speed control
- Universal AC input
- Withstand 300Vac surge input for 5 sec
- · High efficiency, long life and high reliability
- Output protections: SCP/OLP/OPP
- Wide operating ambient temperature (-25°C~70°C)
- · Operating altitude up to 5,000m
- 100% full load burn-in test
- · PCB both sides with conformal coating
- 105°C long life electrolytic capacitor

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 applications, automation

which in the case of the SPPC 240W 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 240 1 F C** Power supply model Panel mounted Output voltage_ Output power-Input type (single phase). Power Factor Correction (PFC) Compact -

Approvals



Output Performances

MODEL NO.	INPUT VOLTAGE	OUTPUT VOLTAGE	VOLTAGE ADJ	RATED CURRENT	VOLTAGE ACCURACY
Single Output Models					
SPPC 12240 1FC	85VAC~264VAC 120VDC~370VDC	12V	-5%~+10%	20 A	±1.0%
SPPC 24240 1FC	85VAC~264VAC 120VDC~370VDC	24V	-5%~+10%	10 A	±1.0%

Output Data

0~20A
0~10A
<150mV
<200mV
± 0.5%

Load regulation	± 1.0%
Turn on time	<2S (230VAC input, Full load)
Output voltage accuracy	±1.0%
Temperature coefficient	±0.03%/°C
Hold up time	≥10mS (230VAC input, Full loa
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	85~ 264VAC	Leakage current	
	120 ~ 370VDC	Input-Output	<0.25mA
Inrush current	<50A@230VAC;	Input-PG	<1.0mA
	<30A@115VAC Cold start	Frequency range	47-63Hz
Efficiency		AC current (max.)	<4.5A
SPPC 12240 1FC	84%	PFC (Power Factor Correction)	PF>0.98/115VAC;
SPPC 24240 1FC	86%		PF>0.95/230VAC

Controls and Protection

Overload (OLP)	120%~170% of rated output current, hiccup mode, auto recovery	Over voltage (OVP)	105%~150% of rated output voltage, hiccup mode, auto recovery
Output short circuit (SCP)	Long-term mode, auto recovery.		

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

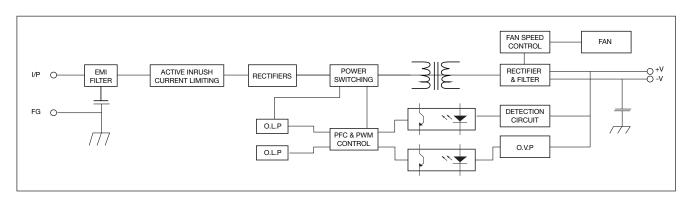
Ambient temperature	-25°C to +70°C	MTBF (MIL-HDBK-217F)	More than 200.000 hrs
Relative humidity	20%~90%RH	Case material	Metal
Storage	-40°C to +85°C	Dimensions LxWxD	199 x 99 x 50 mm
Cooling	Forced air (built-in fan	Packing	12 PCS/CTN.
	controlled by load and		G.W: 11.4kgs
	internal temperature)		0.04CBM
Insolation resistance I/O	≥100M ohms		

Norms and Standard

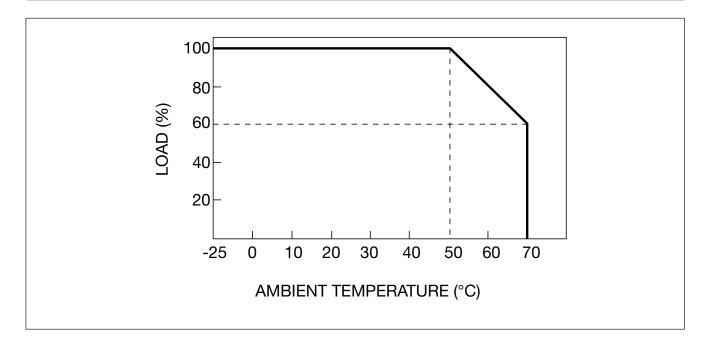
Safety standard	UL60950-1 2 nd Ed;	EMS immunity	Compliance to EN61000
	IEC 60950-1:2005 (2 nd Ed);		-4- 2, 3, 4, 5, 6, 8, 11;
	EN60950-1:2006		heavy industry level.
Withstand voltage	Primary-Secondary:	EMI conduction and radiation	Compliance to EN55022,
	3.0kVAC;		Class B
	≤10mA. Primary-PG:	Harmonic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



Block Diagram



Derating Curve





Mechanical Drawing

