Switching Power Supply Enclosed Type SPPC 50W Series Single Output





- Universal AC input range
- Miniature size, long life, and high power density, efficiency and reliability
- Operating altitude up to 5,000m
- Easy assembly from top side
- 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
- . 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 50W 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 50 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 550 1	90VAC~264VAC	5V	-5%~+10%	8 A	±3.0%
SPPC 1250 1	90VAC~264VAC	12V	-5%~+10%	4.2 A	±3.0%
SPPC 1550 1	90VAC~264VAC	15V	-5%~+10%	3.4 A	±3.0%
SPPC 2450 1	90VAC~264VAC	24V	-5%~+10%	2.2 A	±3.0%
SPPC 4850 1	90VAC~264VAC	48V	-5%~+10%	1.12 A	±3.0%

Output Data

Current range	
SPPC 550 1	0~8A
SPPC 1250 1	0~4.2A
SPPC 1550 1	0~3.4A
SPPC 2450 1	0~2.2A
SPPC 4850 1	0~1.12A
Ripple and noise (-25°~70°C)	
*Note	
SPPC 550 1	<80mV
SPPC 12501	<120mV
SPPC 1550 1	<120mV
SPPC 2450 1	<200mV
SPPC 4850 1	<200mV

SPPC 2450 1	<200mV
SPPC 4850 1	<200mV
* Note: Measured at 20MHz of bandwidth terminated with a 0.1uF & 10uF parallel of	

Line regulation	± 0.5%
Load regulation	± 1.0%
Turn on time (full resistive load)	<2.0S (115VAC input, Full load)
	<1.5S (230VAC input, Full load)
Temperature coefficient	±0.03%/°C
Hold up time	>20mS (115VAC input, Full load);
	>50mS (230VAC input, Full load)
Overshoot and undershoot	<5.0%



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

Voltage range	90VAC~264VAC	AC current	<1.5A
	27~370VDC	Inrush current (Typica)	<20A@115VAC
Frequency range	47Hz~63Hz		<40A@230VAC Cold start
Efficiency		Leakage current	
SPPC 550 1	115VAC, 79%; 230VAC 80%	Input - Output	<0.25mA
SPPC 1250 1	115VAC, 84%; 230VAC 85%	Input - PG	<0.75mA
SPPC 1550 1	115VAC, 85%; 230VAC 86%		
SPPC 2450 1	115VAC, 86%; 230VAC 87%		
SPPC 4850 1	115VAC, 88%; 230VAC 89%		

Controls and Protection

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

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

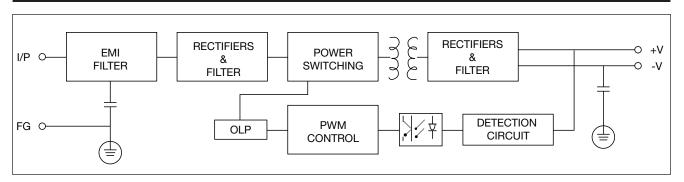
Ambient temperature	-25°C to +70°C	MTBF (MIL-HDBK-217F)	More than 200.000 hrs
Relative humidity	20 - 90% RH	Case material	Metal
Storage	-40°C to +85°C;	Dimensions LxWxD	99 x 82 x 35 mm
	10% ~ 95% RH	Packing	40 PCS/CTN.
	no condensing.		G.W: 12.8kgs
Cooling	Free air convection		0.043CBM
Insolation resistance I/0	≥100M ohms		

Norms and Standard

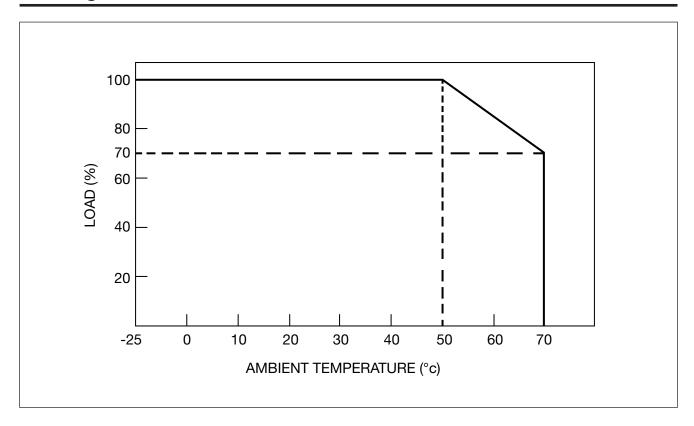
Safety standard	UL60950-1 2 nd Ed: IEC 60950-1:2005 (2 nd Ed);	Harmonic current	Compliance to EN61000-3-2, 3
	EN60950-1:2006	EMC emission	Compliance to EN55022,
Withstand voltage	Primary-Secondary:		EN55024 ClassB
	3.0kVAC;	EMC immunity	Compliance to EN61000
	≤10mA. Primary-PG:		-4- 2, 3, 4, 5, 6, 8, 11;
	1.5kVDC;		ENV55024, EN61000-6-2
	≤10mA. Secondary PG:		heavy industry level.
	0.5kVDC		



Block Diagram

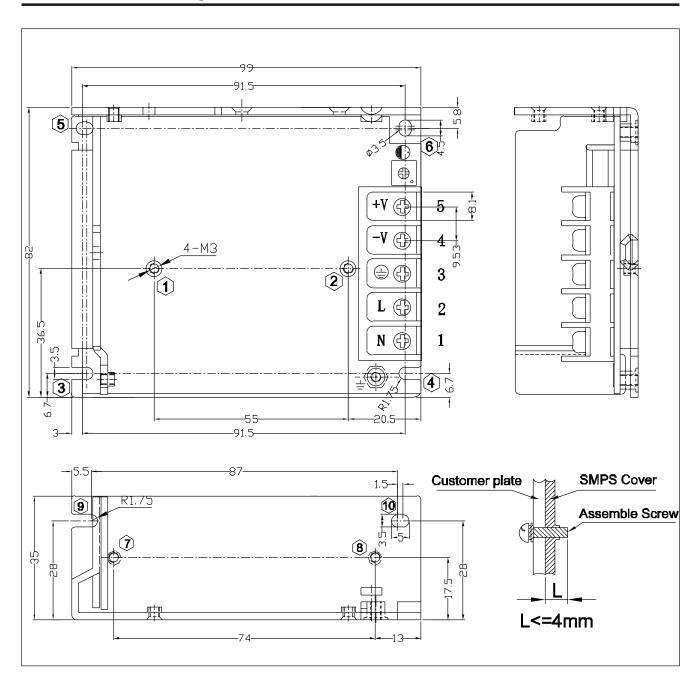


Derating Curve





Mechanical Drawing



Mouser Electronics

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SPPC24501 SPPC48501 SPPC12501 SPPC15501