# Switching Power Supply Enclosed Type SPPC 200W 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 automation applications,

which in the case of the SPPC 200W 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	200	1	F	C
Dower cumply model							
Power supply model——							
Panel mounted							
Output voltage							
Output power							
Input type (single phase)_							
<b>Power Factor Correction</b>	(PFC)_						
Compact							

#### **Approvals**



### **Output Performances**

MODEL NO.	INPUT VOLTAGE	OUTPUT VOLTAGE	VOLTAGE ADJ	RATED CURRENT	VOLTAGE ACCURACY
Single Output Models					
SPPC 5200 1FC	85VAC~264VAC 120VDC~370VDC	5V	-5%~+10%	40 A	±1.0%
SPPC 12200 1FC	85VAC~264VAC 120VDC~370VDC	12V	-5%~+10%	16.7 A	±1.0%
SPPC 24200 1FC	85VAC~264VAC 120VDC~370VDC	24V	-5%~+10%	8.4 A	±1.0%
SPPC 48200 1FC	85VAC~264VAC 120VDC~370VDC	48V	-5%~+10%	4.2A	±1.0%

### Output Data

Current range	
SPPC 5200 1FC	0~40
SPPC 12200 1FC	0~16.7A
SPPC 24200 1FC	0~8.4A
SPPC 48200 1FC	0~4.2A
Ripple and noise *Note	
SPPC 5200 1FC;	
SPPC 12200 1FC	<150mV
SPPC 24200 1FC;	
SPPC 48200 1FC	<200mV

Line regulation	± 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 load)
Overshoot and Undershoot	< 5.0%

<sup>\*</sup> 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.)	<3.5A
SPPC 5200 1FC	79%	PFC (Power Factor Correction)	PF>0.98/115VAC;
SPPC 12200 1FC	84		PF>0.95/230VAC
SPPC 24200 1FC	86		
SPPC 48200 1FC	87.5		

## **Controls and Protection**

Overload (OLP)	105%~150% 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

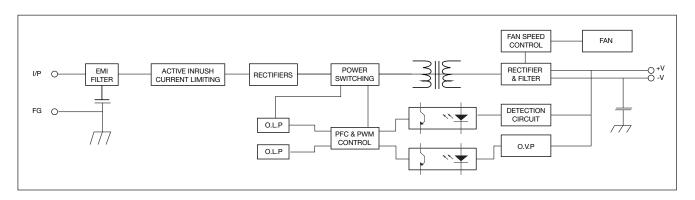
Ambient temperature	-25°C to +70°C	Insolation resistance I/O	≥100M ohms
Relative humidity	20%~90%RH	MTBF (MIL-HDBK-217F)	More than 200.000 hrs
Storage	-40°C to +85°C	Case material	Metal
Cooling	Forced air (built-in fan	Dimensions LxWxD	199 x 99 x 50 mm
	controlled by load and	Packing	12 PCS/CTN.
	internal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

### **Norms and Standard**

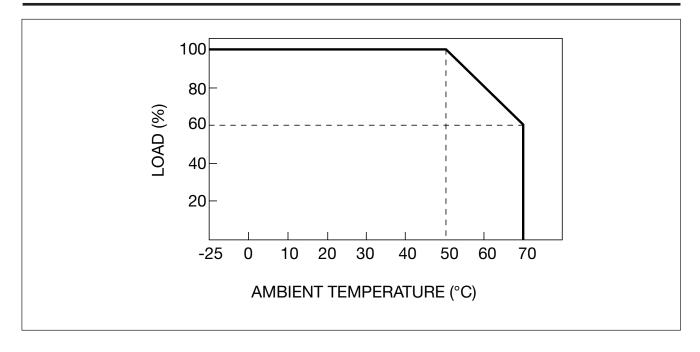
Safety standard	UL60950-1 2 <sup>nd</sup> Ed;	EMS immunity	Compliance to EN61000
	IEC 60950-1:2005 (2 <sup>nd</sup> Ed);		-4- 2, 3, 4, 5, 6, 8, 11;
	EN60950-1:2006		heavy industry level.
Withstand voltage	Primary-Secondary:	EMI conduction and radiation	Compliance to EN55022,
	3.0kVAC;		Class B
	≤10mA.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



## **Block Diagram**

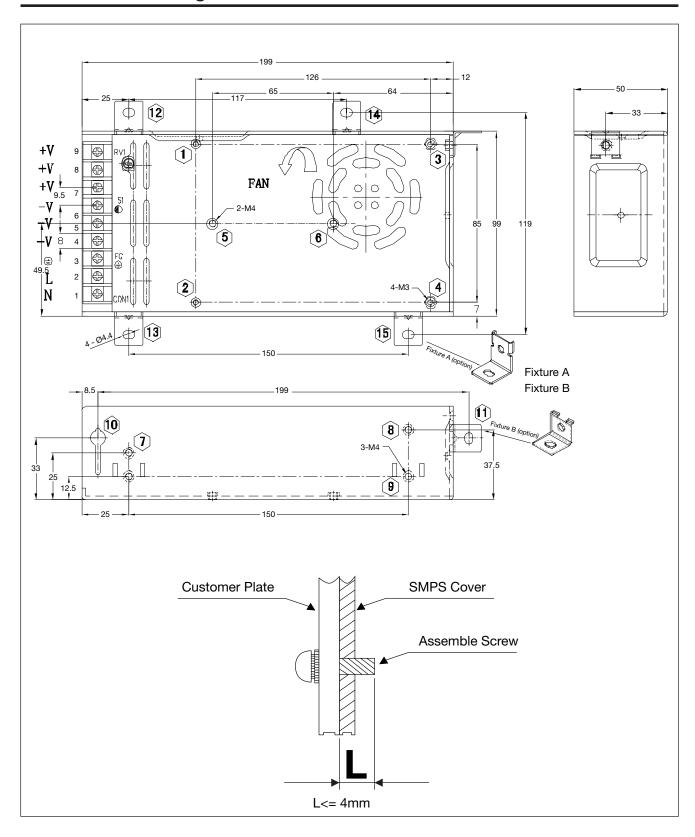


## **Derating Curve**





## **Mechanical Drawing**



# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Carlo Gavazzi: