Switching Power Supply Enclosed Type SPPC 800W Series Single Output





- Universal AC input/ Full range
- Built-in active PFC function, PF>0.96
- Using ZVS technology to reduce power dissipation
- Output protection: OVP/OLP/SCP/OPP/OTP
- Built in Fan speed control
- Built in AC inrush current limiting circuit (<20A)
- · Build in constant current limiting circuit
- Built in Remote Sense Function
- Build in DC OK signal
- Wide operating ambient temperature (-30°C~70°C)
- 1 U low profile,41mm

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 800W ranges from 24V to 48V. All the range carries full certification offering a wide range of universal input and screw terminal connections.

Ordering Key	SP	PC XX	800	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	VOLTAGE ACCURACY
Single Output Models				
SPPC 24800 1FC	90VAC~264VAC 127VDC~370VDC	24V	-5%~+10%	±2.0%
SPPC 48800 1FC	90VAC~264VAC 127VDC~370VDC	48V	-5%~+10%	±2.0%

Output Data

Rated current (100~127VAC)	
SPPC 24800 1FC	27A
SPPC 48800 1FC	14A
Rated current (128~264VAC)	
SPPC 24800 1FC	33A
SPPC 48800 1FC	16.5A
Ripple and noise *Note	
SPPC 24800 1FC	≤200mV
SPPC 48800 1FC	≤240mV

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

Line regulation	± 0.5%
Load regulation	± 2.0%
Turn on time	<3S (220VAC input, Full load)
Output voltage accuracy	±2.0%
Temperature coefficient	±0.03%/°C
Hold up time	≥8mS (220VAC 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	90~ 264VAC	Leakage current	
	127 ~ 370VDC	Input-Output	<0.25mA
Inrush current	<20A@220VAC Cold start	Input-PG	<3.5mA
Frequency range	47-63Hz	AC current (max.)	≤12A
Efficiency		PFC (Power Factor Correction)	PF>0.98/115VAC;
SPPC 24800 1FC	≥88%		PF>0.96/230VAC
SPPC 48800 1FC	≥89%		

Controls and Protection

Overload (OLP)	110%~135% of rated output current, constant current, auto recovery	Over voltage (OVP)	110%~150% of rated output voltage; constant voltage, auto recovery.
Output short circuit (SCP)	Long-term mode, constant current, auto recovery.		

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

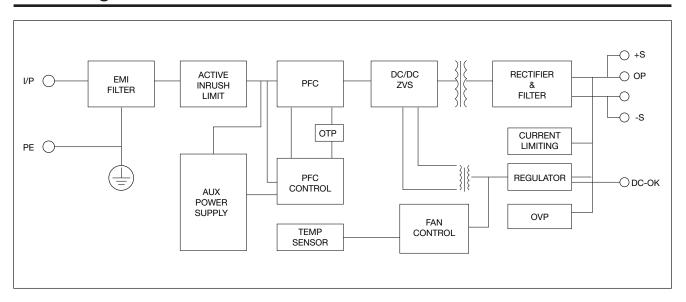
Ambient temperature	-30°C to +70°C	Insolation resistance I/O	≥100M ohms
Relative humidity	20%~90%RH	MTBF (MIL-HDBK-217F)	More than 200.000 hrs
Storage	-40°C to +85°C	Case material	Metal
Cooling	Forced air (built-in fan	Dimensions LxWxD	226 x 116.5 x 41 mm
	controlled by load and	Packing	6 PCS/CTN. G.W: 8.9kgs
	internal temperature		0.04CBM

Norms and Standard

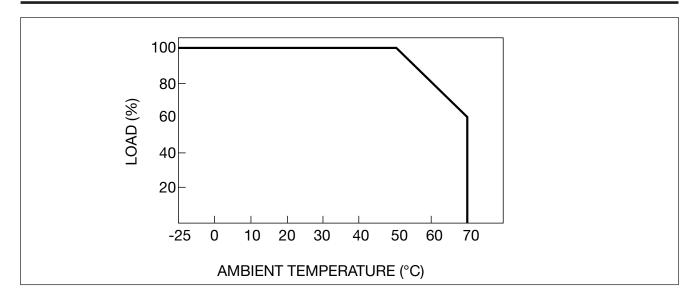
Safety standard	UL60950-1 2 nd Ed;	EMS immunity	Compliance to EN61000
	IEC 60950-1:2005 (2 nd Ed);		-4- 2, 3, 4, 5, 6, 8, 11;
	EN60950-1:2006		heavy industry level.
Withstand voltage	Primary-Secondary:	EMI conduction and radiation	Compliance to EN55022,
	3.0kVAC;		Class B
	≤10mA. Primary-PG:	Harmonic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



Block Diagram



Derating Curve





Mechanical Drawing

