Switching Power Supply Enclosed Type SPPC 480W Series Single Output





- Universal AC input/ Full range
- Built-in active PFC function,PF>0.96
- Using ZVS technology to reduce power dissipation
- Built in Fan speed control and over temperature protection
- 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 480W ranges from 12V to 48V. All the range carries full certification offering a wide range of universal input and screw terminal connections.

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 12480 1FC	90VAC~264VAC 127VDC~370VDC	12V	-5%~+10%	34 A	±2.0%
SPPC 24480 1FC	90VAC~264VAC 127VDC~370VDC	24V	-5%~+10%	22 A	±2.0%
SPPC 36480 1FC	90VAC~264VAC 127VDC~370VDC	36V	-5%~+10%	14 A	±2.0%
SPPC 48480 1FC	90VAC~264VAC 127VDC~370VDC	48V	-5%~+10%	11 A	±2.0%

Output Data

Current range	
SPPC 12480 1FC	0~34A
SPPC 24480 1FC	0~22A
SPPC 36480 1FC	0~14A
SPPC 48480 1FC	0~11A
Ripple and noise *Note	
SPPC 12480 1FC	120mV (0-70°C); 180mV (-30°C)
SPPC 24480 1FC	150mV (0-70°C); 150mV (-30°C)
SPPC 36480 1FC	150mV (0-70°C); 150mV (-30°C)
SPPC 48480 1FC	200mV (0-70°C); 200mV (-30°C)

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

Line regulation	± 0.5%
Except for SPPC 48480 1FC	± 0.2%
Load regulation	± 1.0%
Turn on time	<1.5S (230VAC input, Full load);
	<3S (115VAC input, Full load)
Output voltage accuracy	±2.0%
Temperature coefficient	±0.05%/°C
Hold up time	≥16mS (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	90~ 264VAC	Leakage current	
	127 ~ 370VDC	Input-Output	<0.1mA
Inrush current	<20A@230VAC Cold start	Input-PG	<0.75mA
Efficiency		AC current (max.)	<7A
SPPC 12480 1FC	88%	Frequency range	47-63Hz
SPPC 24480 1FC	89%	PFC (Power Factor Correction)	PF>0.98/115VAC;
SPPC 36480 1FC	90%		PF>0.96/230VAC
SPPC 48480 1FC	90%		

Controls and Protection

Overload (OLP)	110%~135% of rated output current, constant current.	Over voltage (OVP)	105%~150% of rated 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

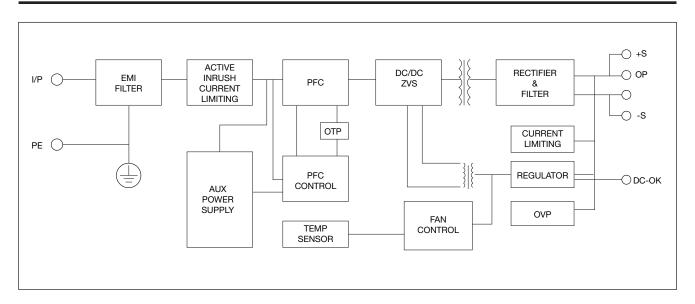
Ambient temperature	-30°C to +70°C	Insolation resistance I/O	≥100M ohms
Relative humidity	20%~90%RH	MTBF (MIL-HDBK-217F)	More than 200.000 hrs
Storage	-40°C to +85°C	Case material	Metal
Cooling	Forced air (built-in fan	Dimensions LxWxD	218 x 116.5 x 41 mm
	controlled by load and internal temperature)	Packing	6 PCS/CTN. G.W: 8.7kgs 0.04CBM

Norms and Standard

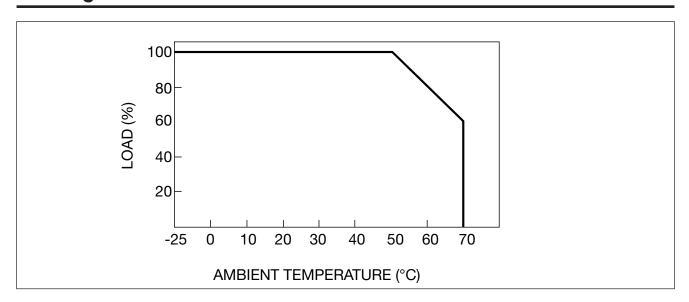
UL60950-1 2 nd Ed;	EMS immunity	Compliance to EN61000
IEC 60950-1:2005 (2 nd Ed);		-4- 2, 3, 4, 5, 6, 8, 11;
EN60950-1:2006		heavy industry level.
Primary-Secondary:	EMI conduction and radiation	Compliance to EN55022,
3.0kVAC;		Class B
≤10mA. Primary-PG:	Harmonic current	Compliance to EN61000-3-
1.5kVAC;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



Block Diagram



Derating Curve





Mechanical Drawing

