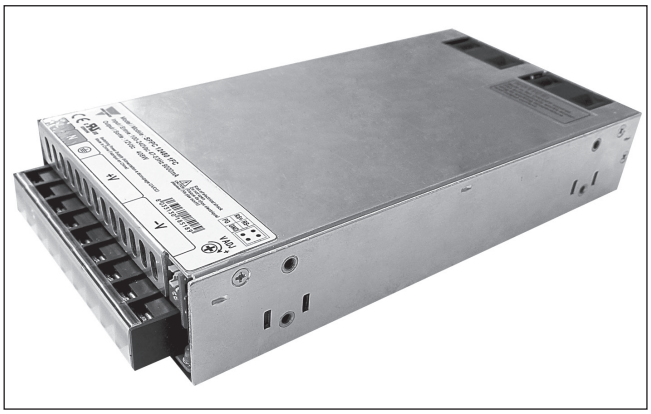
Switching Power Supply
Enclosed Type SPPC 480W Series
Single Output



- 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.

Ordering Key

SP PC XX 480 1 F C

- **Power supply model**
- **Panel mounted**
- **Output voltage**
- **Output power**
- **Input type (single phase)**
- **Power Factor Correction (PFC)**
- **Compact**

Approvals

E258396

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)

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%

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

Specifications are subject to change without notice. Pictures are just an example. For special features and/or customization, please ask to our sales network. 16/07/2014

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

Voltage range	90~ 264VAC 127 ~ 370VDC
Inrush current	<20A@230VAC Cold start
Efficiency	
SPPC 12480 1FC	88%
SPPC 24480 1FC	89%
SPPC 36480 1FC	90%
SPPC 48480 1FC	90%

Leakage current	
Input-Output	<0.1mA
Input-PG	<0.75mA
AC current (max.)	<7A
Frequency range	47-63Hz
PFC (Power Factor Correction)	PF>0.98/115VAC; PF>0.96/230VAC

Controls and Protection

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

Over voltage (OVP)	105%~150% of rated voltage; constant voltage.

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

Ambient temperature	-30°C to +70°C
Relative humidity	20%~90%RH
Storage	-40°C to +85°C
Cooling	Forced air (built-in fan controlled by load and internal temperature)

Insolation resistance I/O	≥100M ohms
MTBF (MIL-HDBK-217F)	More than 200.000 hrs
Case material	Metal
Dimensions LxWxD	218 x 116.5 x 41 mm
Packing	6 PCS/CTN. G.W: 8.7kgs 0.04CBM

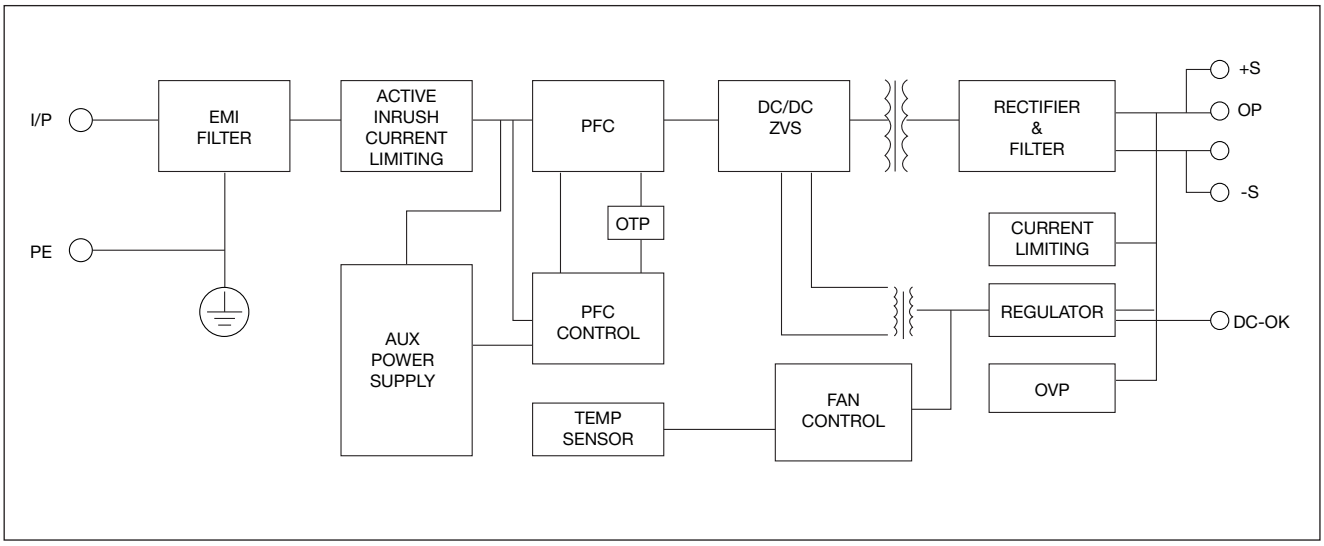
Norms and Standard

Safety standard	UL60950-1 2nd Ed; IEC 60950-1:2005 (2ndEd); EN60950-1:2006
Withstand voltage	Primary-Secondary: 3.0kVAC; ≤10mA. Primary-PG: 1.5kVAC; ≤10mA. Secondary PG: 0.5kVDC; ≤10mA

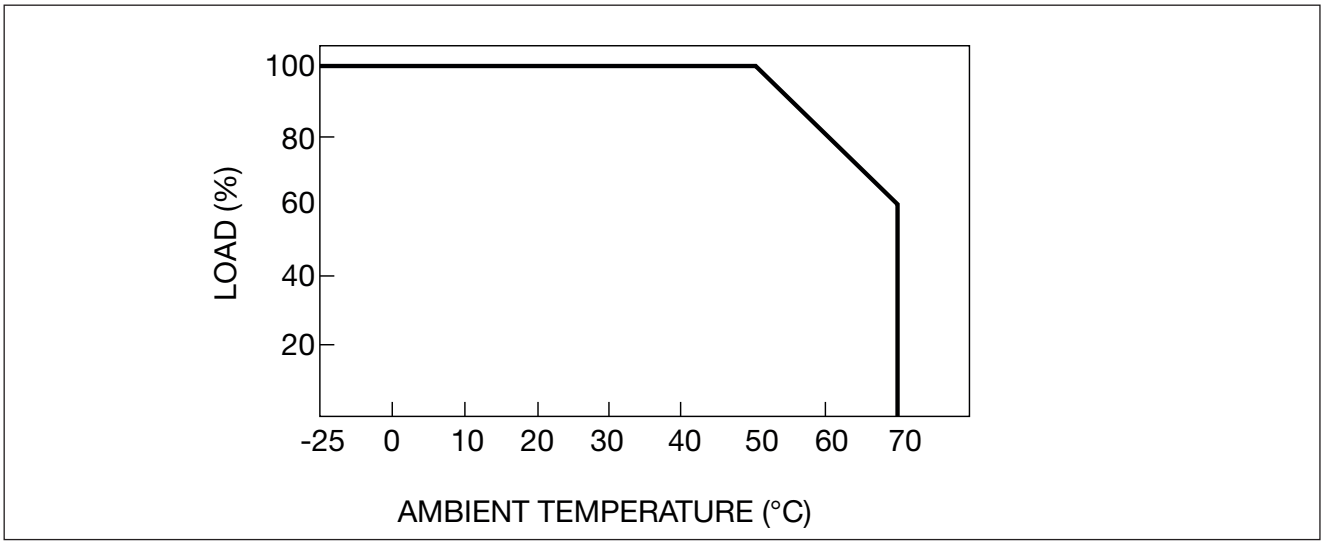
EMS immunity	Compliance to EN61000 -4- 2, 3, 4, 5, 6, 8, 11; heavy industry level.
EMI conduction and radiation	Compliance to EN55022, Class B
Harmonic current	Compliance to EN61000-3-2, Class D

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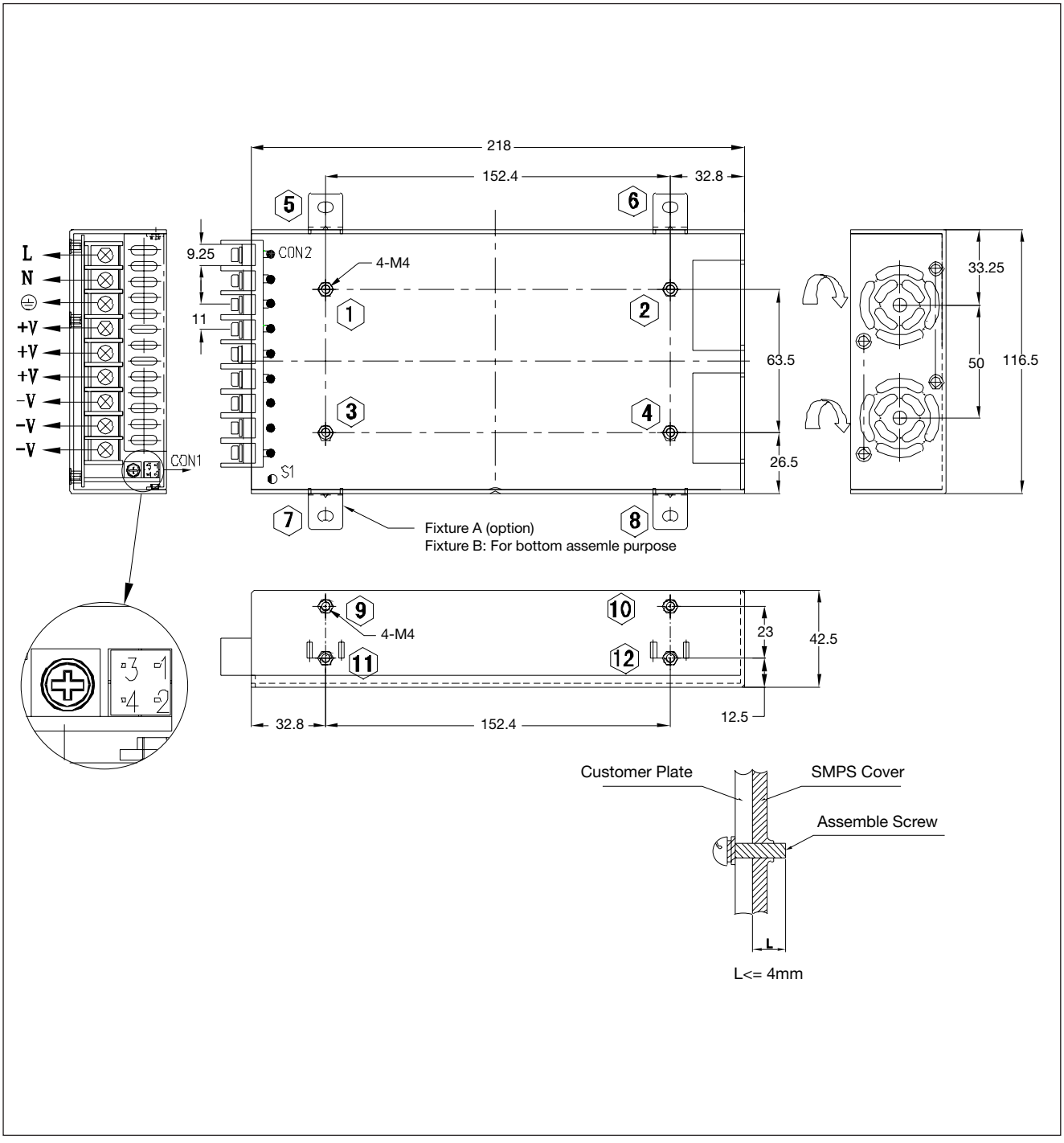
Block Diagram



Derating Curve



Mechanical Drawing



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