

Features:



- Universal AC input range
- Built-in Active PFC function, PF>0.95
- Miniature size, high power density, high efficiency, long life and high reliability
- Withstand 300VA surge input for 5 sec.
- Output protections: OLP/SCP/OPP
- Wide operating ambient temp (-20°C~70°C)
- **Operating altitude up to 5000M**
- 100% full load burn-in test
- Easy assembling from top side
- PCB soldering side with conformal coating
- Suitable for critical applications
- 3 years warranty

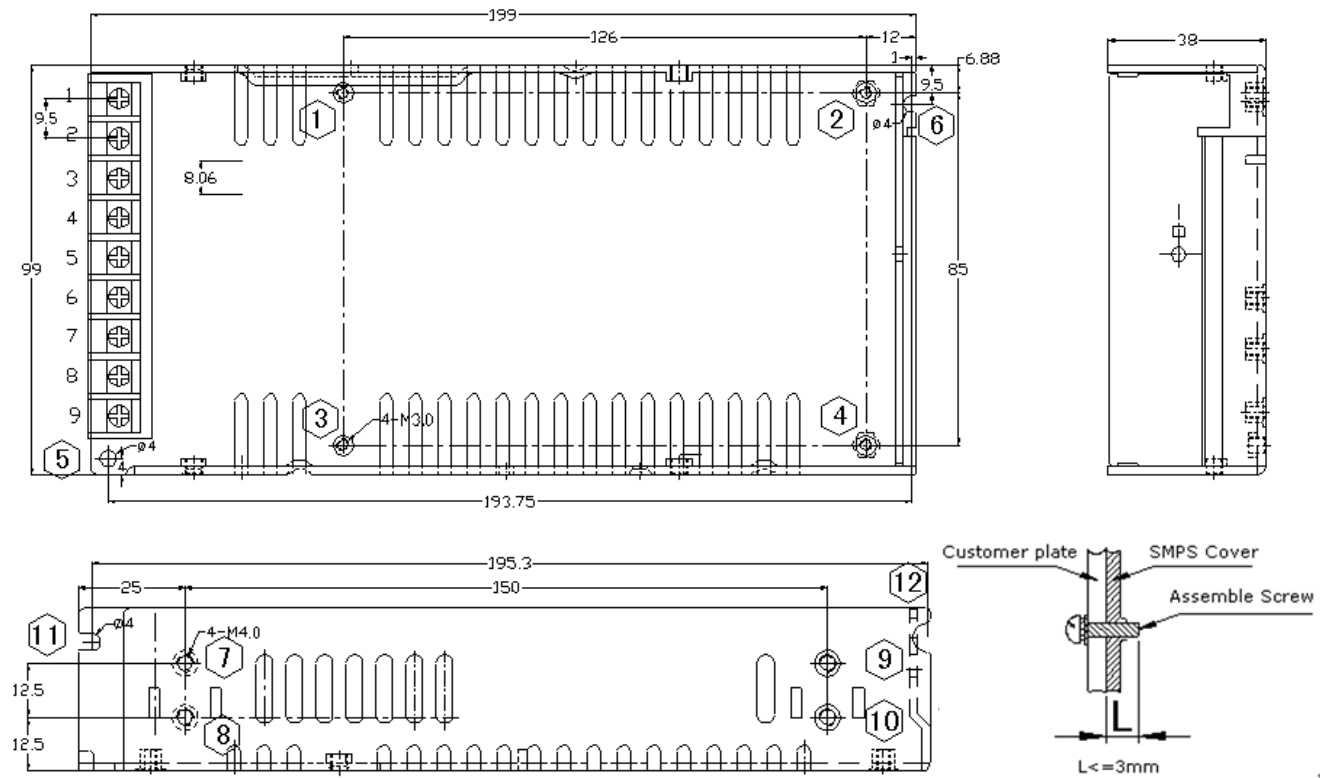
**SPECIFICATION**



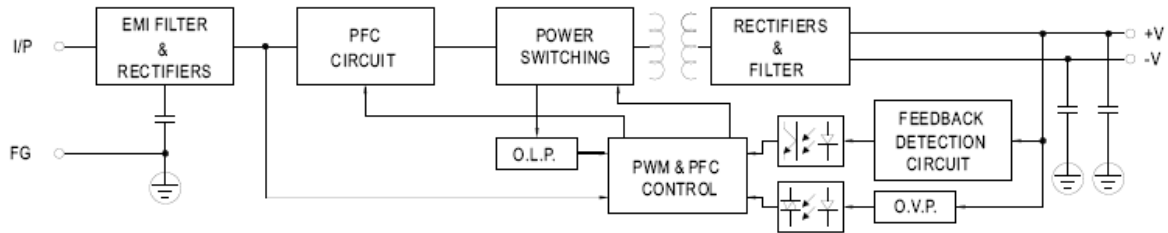
MODEL		MFPWF-200(L)-5	MFPWF-200(L)-12	MFPWF-200(L)-24	MFPWF-200(L)-48	
OUTPUT	DC Output	EOL	12V	24V	48V	
	Rated Current	Use MLVAT-U200S5	16.7A	8.4 A	4.2A	
	Current Range	Note 1	0~16.7A	0~8.4A	0~4.2A	
	Ripple and Noise	Note 2	0~70°C	≤150mV	≤200mV	≤150mV
			-20~0°C	≤200mV	≤200mV	≤150mV
	Voltage ADJ. Range			10~15.5V	20~27.2V	42~53V
	Voltage Accuracy			±2.0%	±1.0%	±1.0%
	Line Regulation			±0.5%	±0.5%	±0.5%
	Load Regulation			±2.0%	±1.0%	±1.0%
	Set-up Time		≤4S @115Vac, ≤2S @230Vac			
	Hold up Time		≥10mS (230Vac input, Full load)			
	Temperature Coefficient		±0.03%/°C			
Overshoot and Undershoot		<5.0%				
INPUT	Voltage Range	90Vac~264Vac				
	Frequency Range	47Hz~63Hz				
	Power factor (typical)	PF>0.98@115Vac, PF>0.95@230Vac				
	Efficiency (Typical) 230Vac input	≥81%	≥87%	≥88%	≥88.5%	
	AC Current (max.)	<3 A				
	Inrush Current (Typical)	<30@115Vac, <50A@230Vac Cold start				
	Leakage Current	Input—output: ≤0.25mA Input—PG: ≤3.5mA				
PROTECTION	Over Load	105%~150% of rated output current, hiccup mode, auto recovery				
	Over power	105%~150% of rated output current, hiccup mode, auto recovery				
	Short Circuit	Long-term mode, auto recovery				
ENVIRONMENT	Operating amb. Temp. & Hum.	-20°C~70°C; 20%~90%RH No condensing (refer to the derating curve)				
	Storage Temp. & Hum.	-40°C~85°C; 10%~95%RH No condensing				
SAFETY & EMC Note 3	Safety Standards	UL60950-1; EN60950-1: 2006				
	Withstand Voltage	Primary-Secondary:3.0kVac; ≤10mA .Primary-PG:1.5kVac; ≤10mA. Secondary-PG:0.5kVDC;≤10mA.				
	Isolation Resistance	100M ohms				
	EMS Emission	Compliance to EN55022 Class B				
	Harmonic Current	Compliance to EN61000-3-2, Class D				
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; heavy industry level				
OTHERS	MTBF (MIL-HDBK-217F)	More than 200,000Hrs (25°C, Full load)				
	Dimension (L*W*H)	MFPWF-200:199×99×50mm; MFPWF-200L: 199×99×38mm				
	Packing	20PCS/CTN, 16KGS, 0.04CBM				
	Cooling method	Cooling by free air convection				
NOTE	<ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature.</li> <li>2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF &amp; 10uF parallel capacitor.</li> <li>3. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets EMC directives.</li> </ol>					

**Mechanical Specification**

Unit: mm (MFPWF-200 height:50mm MFPWF-200L height:38mm)



**Block Diagram**



**Derating Curve**

