



Features:

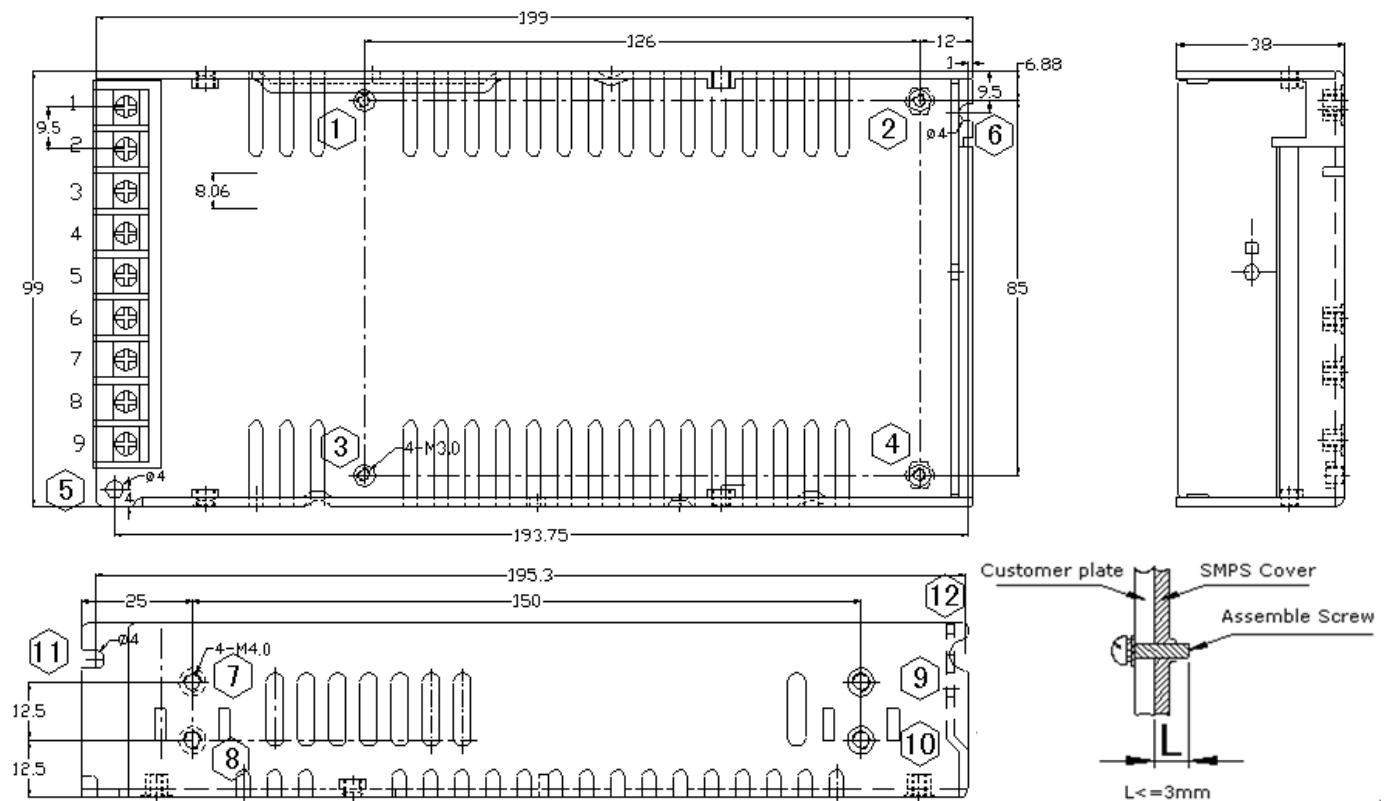
- Universal AC input range
- Built-in Active PFC function, PF>0.93
- Miniature size, high power density, high efficiency, long life and high reliability
- Output protections: OLP/SCP/OPP
- Wide operating ambient temp (-20°C ~65°C)
- **Operating altitude up to 5000M**
- 100% full load burn-in test
- Easy assembling from top side
- PCB soldering side with conformal coating
- Suitable for critical applications
- 3 years warranty

SPECIFICATION

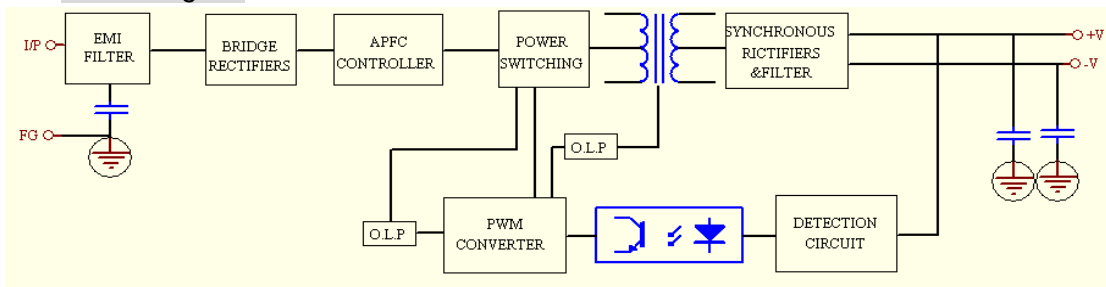
MODEL		MFPWF-100L-12II	MFPWF-100L-24II	MFPWF-100L-36II	MFPWF-100L-48II	
OUTPUT	DC Output	12V	24V	36V	48V	
	Rated Current	8.5A	4.2A	2.75A	2.15A	
	Current Range <small>Note 1</small>	0~8.5A	0~4.2A	0~2.75A	0~2.15A	
	Ripple and Noise <small>Note 2</small>	0~65°C	≤100mV	≤150mV	≤250mV	≤250mV
		-20~0°C	≤200mV	≤300mV	≤500mV	≤500mV
	Voltage ADJ. Range	±10% of rated output voltage				
	Voltage Accuracy	±2.0%	±1.0%	±1.0%	±1.0%	
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	
	Load Regulation	±0.5%	±0.5%	±1.0%	±0.5%	
	Set-up Time	≤2S (230Vac input, full load)				
	Hold up Time	≥20mS (230Vac input, Full load)				
Temperature Coefficient	±0.03%/°C					
Overshoot and Undershoot	<5.0%					
INPUT	Voltage Range	85Vac~264Vac				
	Frequency Range	47Hz~63Hz				
	Power factor (typical)	PF > 0.93@230Vac				
	Efficiency (Typical) 230Vac input	≥85%	≥86%	≥86%	≥87%	
	Efficiency (Typical) 120Vac input	≥83%	≥83%	≥83%	≥84%	
	AC Current (max.)	<1.7 A				
	Inrush Current (Typical)	<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~65°C; 20%~90%RH No condensing (refer to the derating curve)				
	Storage Temp. & Hum.	-20°C~85°C; 10%~95%RH No condensing				
SAFETY & EMC <small>Note 3</small>	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)	199×99×38mm				
	Packing	20PCS/CTN, 14.5KGS, 0.04CBM				
	Cooling method	Cooling by free air convection				
NOTE	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 10uF parallel capacitor. 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. 					

■ Mechanical Specification

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



■ Block Diagram



■ Derating Curve

