

600Watts Single Output Enclosed (with PFC) SMPSU

■ Features:

- 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 temp. 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℃~70℃)
- 1 U low profile, 42.5mm
- 3 years warranty

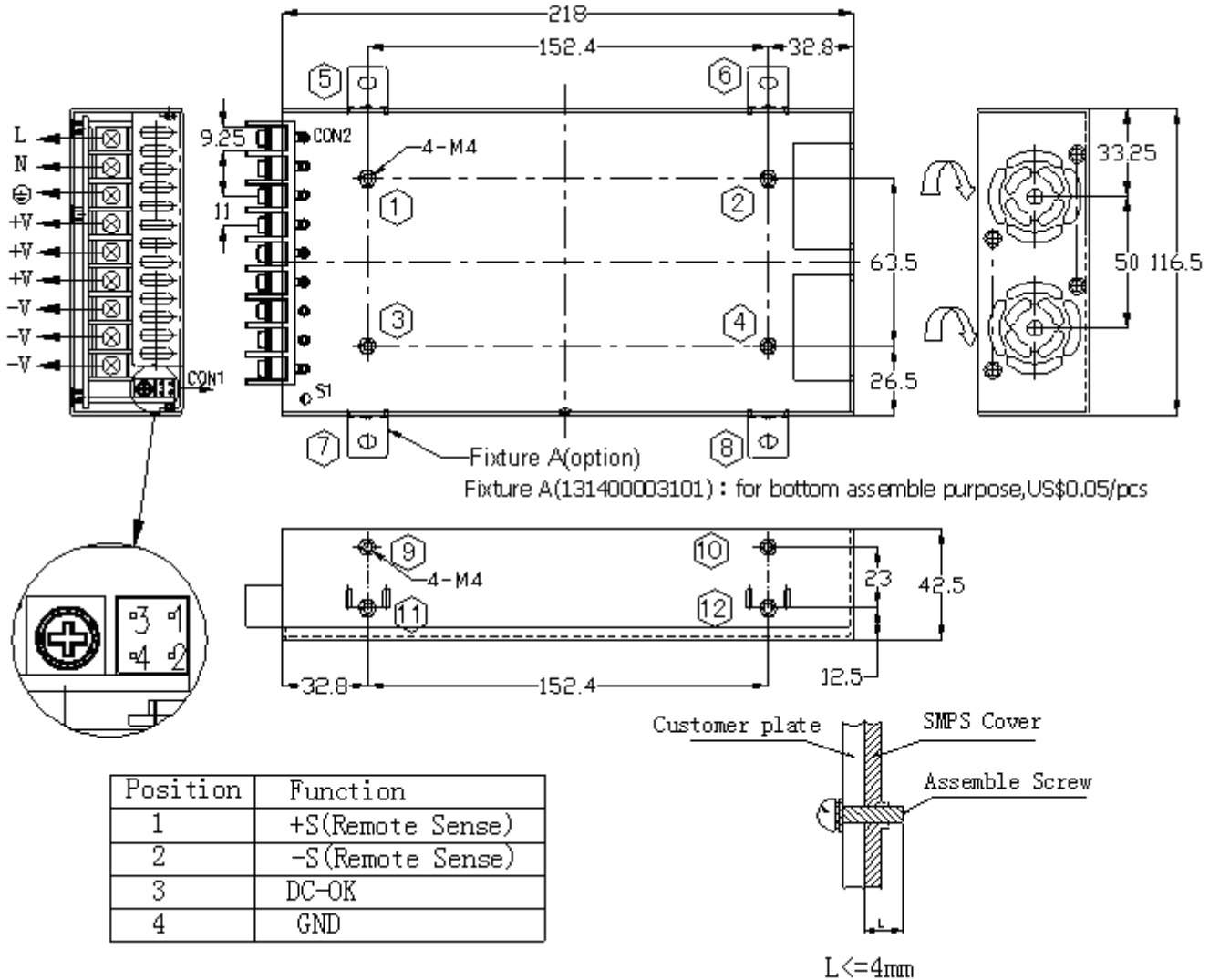


SPECIFICATION

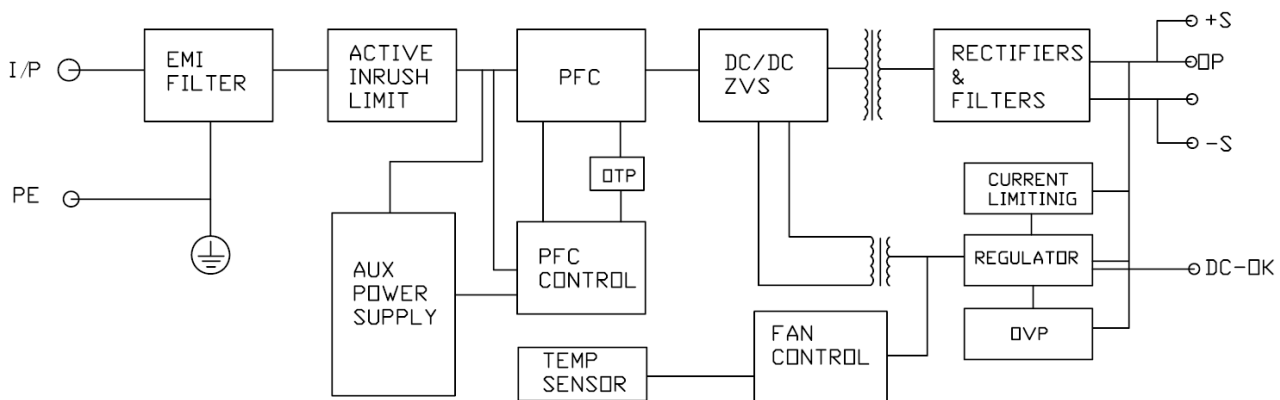
MODEL		PDF-600-12	PDF-600-24	PDF-600-36	PDF-600-48
OUTPUT	DC Output	12V	24V	36V	48V
	Rated Current	50A	25A	17.5A	12.25A
	Current Range	0~50A	0~25A	0~17.5A	0~12.25A
	Ripple and Noise	0-70℃	<120mV	<150mV	<200mV
	Note 2	-30℃	<180mV	<150mV	<200mV
	Voltage ADJ. Range	±10% of rated output voltage			
	Voltage Accuracy	±2.0%	±2.0%	±2.0%	±2.0%
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.2%
	Load Regulation	±1.0%	±1.0%	±1.0%	±1.0%
	Set-up Time	<1.5S (230Vac input, Full load), <3S (115Vac input, Full load)			
	Hold up Time	>16mS/ (230Vac input, Full load)			
	Temperature Coefficient	±0.05%/℃			
	Overshoot and Undershoot	<5.0%			
	INPUT	Voltage Range	90Vac~264Vac, 127Vdc~370Vdc		
Frequency Range		47Hz~63Hz			
Power Factor(Typical)		PF>0.98/115VAC PF>0.96/230VAC			
Efficiency (Typical)		88%	89%	90%	90%
AC Current (max.)		<7A			
Inrush Current (Typical)		<20A@230Vac Cold start			
Leakage Current		Input—output: ≤0.1mA Input—PG: ≤0.75mA			
PROTECTION	Over Load	110%~135% of rated output current, constant current			
	Over Temperature	105℃±5℃ (detect on Mosfet temperature);shut down,auto recovery after the temperature goes down to 75℃			
	Over Voltage	110%~150% of rated voltage; constant voltage			
	Short Circuit	Long-term mode, constant current, auto recovery			
ENVIRONMENT	Operating amb. Temp. & Hum.	-30℃~70℃; 20%~90%RH No condensing (refer to derating curve)			
	Storage Temp. & Hum.	-40℃~85℃; 10%~95%RH No condensing			
SAFETY & EMC (Note 3)	Safety Standards	IEC60950/ UL60950 /; EN60950-1: 2006			
	Withstand Voltage	Primary-Secondary:3.0KVac; ≤10mA .Primary-PG:1.5KVac; ≤10mA. Secondary-PG:0.5KVac; ≤10mA.			
	Isolation Resistance	≥100M ohms			
	EMI Conduction&Radiation	Compliance to EN55022(CISPR22)ClassB			
	Harmonic Current	Compliance to EN61000-3-2,17625.1-2003			
	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11;ENV50204,light industry level,criteriaA			
OTHERS	MTBF (MIL-HDBK-217F)	More than 200,000Hrs (25℃ , Full load)			
	Dimension (L*W*H)	218×116.5×42.5mm			
	Packing	6PCS/CTN, 8.7KGS, 0.04CBM			
	Cooling method	Fored air cooling(Built-in fan)			
NOTE	1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25℃ of ambient temperature. 2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 47uF parallel capacitor. 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.				

■ Mechanical Specification

Unit:mm



■ Block Diagram



■ Derating Curve

