
Features:

- Universal input 85~264Vac or 120~370Vdc
- Built-in Active PFC, PF>0.95
- 140W free air convection, 230W force air
- No load power consumption<0.3W
- Extremely low leakage current<0.1mA
- 12V/0.5A fan supply
- Output protections: SCP/OVP/OCP/OTP
- Wide operating ambient temperature (-40°C~70°C)
- Operating altitude up to 5000m
- 4.07"*2" *1" Compact size
- Suitable for BF applications
- Fit for Class I & Class II configuration
- 3 years warranty

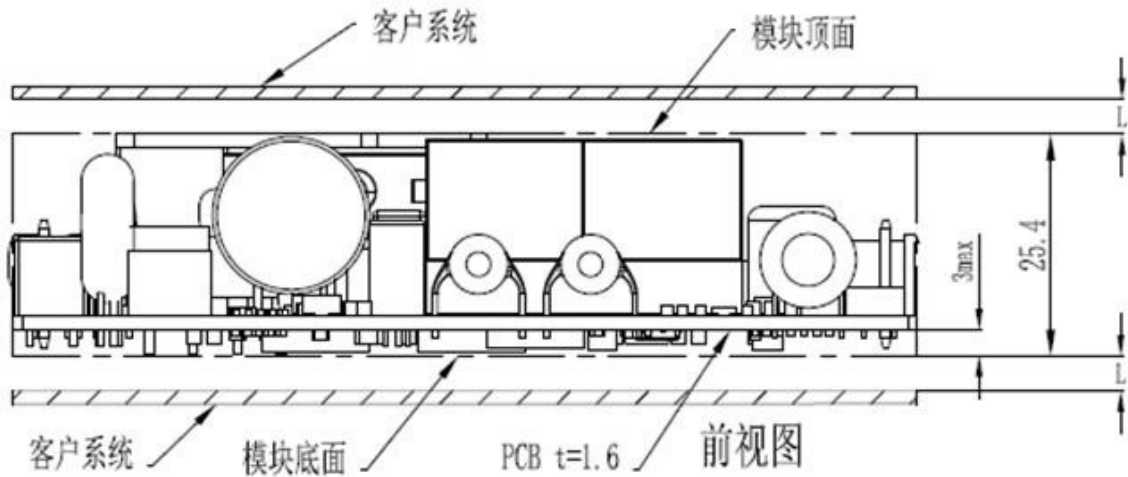
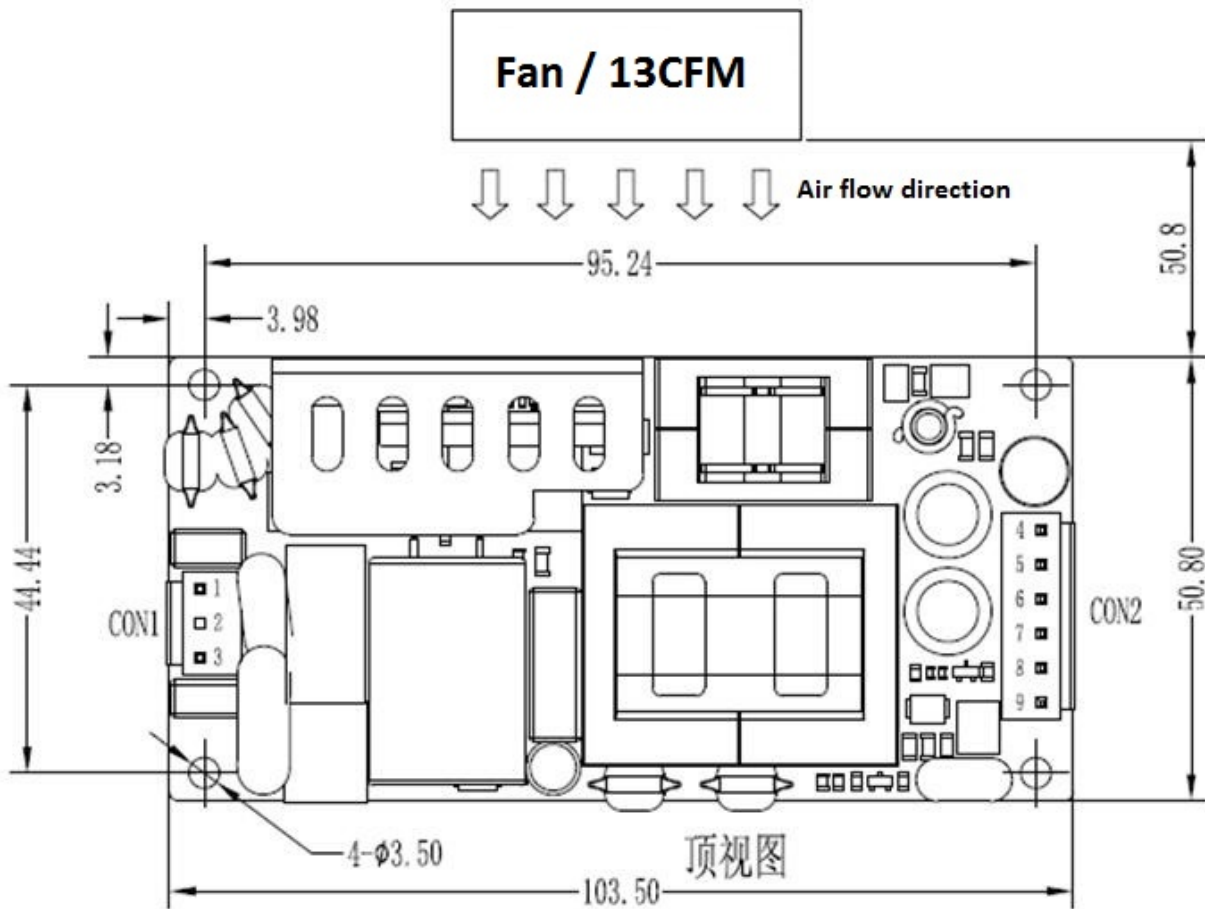
SPECIFICATION

MODEL		PSF-230S-12	PSF-230S-24	PSF-230S-36	PSF-230S-48	
OUTPUT	DC Output	12V	24V	36V	48V	
	Rated Current (free air convection)	11.7A (140.4W)	5.83A (139.92W)	3.9A (140.4W)	2.92A (140.16W)	
	Rated Current (13CFM forced air)	19.2A (230.4W)	9.58A (229.92W)	6.39A (230.04W)	4.79A (229.92W)	
	Ripple and Noise	0~70°C	100mV			
		Note 2 -40°C~0°C	200mV			
	Voltage ADJ. Range	11.4~12.6V	22.8~25.2V	34.2~37.8V	45.6~50.4V	
	Voltage Accuracy	±1.0%				
	Line Regulation	±0.5%				
	Load Regulation	±1.0%	±0.5%			
	Set-up Time	≤1.5S (230Vac input, Full load); ≤3.0S (115Vac input, full load)				
	Hold up Time	≥12mS @115Vac input ; ≥16mS @230Vac input Full load				
	Temperature Coefficient	±0.03%/°C				
	Overshoot	<5.0%				
INPUT	Voltage Range Note 3	85~264Vac/120~370Vdc				
	Rated input voltage range	100~240Vac				
	Frequency Range	47Hz-63Hz				
	Efficiency (Typical)	93%	94%	94%	94%	
	Power Factor(Typical)	PF>0.99/115Vac, PF>0.95/230Vac full load				
	AC Current (max.)	≤3 A/115Vac ≤1.5 A/230Vac full load				
	Inrush Current (Typical)	60A/230Vac Cold start				
	Leakage Current	Input to PG: ≤0.25mA Input to output: ≤0.1mA				
PROTECTION	Over Current	21.1~34.5A	10.5~17.2A	7~11.5A	5.27~8.62A	
		Protection type: Hiccup mode, auto recovery				
	Over Power	110%~180%, Hiccup mode, auto recovery				
	Over Voltage	≤16V	≤32V	≤48V	≤60V	
		Protection type: Re-power on				
	Over temperature	Shut down when temperature is too high; auto recovery when temperature is low				
	Short Circuit	Long-term mode, auto recovery				
ENVIRONMENT	Operating amb. Temp. & Hum.	-40°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				
	Operating altitude (Note 3)	5000 meters				
SAFETY & EMC (Note 4)	Safety Standards	IEC62368 / IEC60601				
	Withstand Voltage	Primary-Secondary: 4KVac/10mA; Primary to PG: 1.5KVac/10mA; Secondary-PG: 1.5Vac/10mA				
	Isolation Resistance	50M ohms				
	Isolation Level	Input-output	2*MOPP			

	Input-FG	1*MOPP
	Output-FG	1*MOPP
	EMI Conduction&Radiation	Compliance to EN55032 Class B
	Harmonic Current	Compliance to EN61000-3-2, Class D
OTHERS	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11;
	MTBF (MIL-HDBK-217F)	More than 200,000Hrs (25°C, Full load)
	Dimension (L*W*H)	103.5*50.8*25.4mm (4.07"*2"*1" inch)
	Packing	TBD
NOTE	Cooling method	140W free air convection; 230W with 13CFM forced air
	<p>1. All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature.</p> <p>2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 10uF parallel capacitor.</p> <p>3. The ambient temperature derating of 0.5°C/100m for operating altitude higher than 2000m.</p> <p>4. The power supply is considered as a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies" on http://www.powerld.com.cn.</p>	

Mechanical Specification

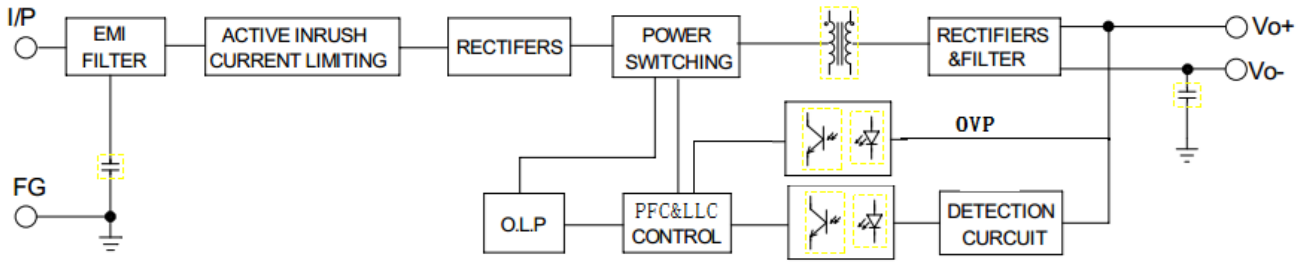
Unit: mm



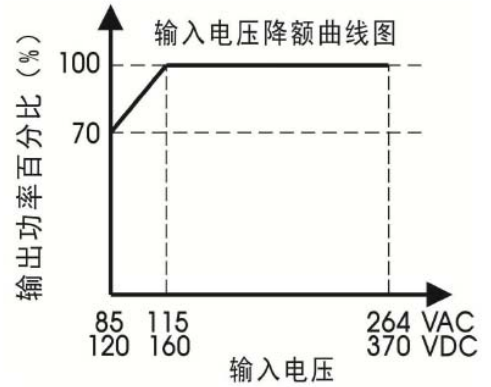
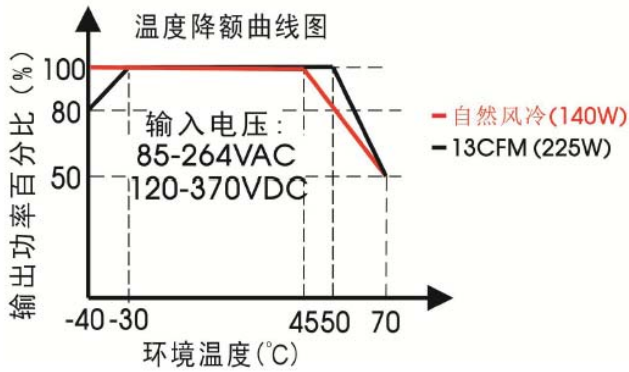
1.Input AC Connector			
CON1	1	N	3.96 Pitch / 3Pin Middle Pin Removed
	2	/	
	3	L	

2.Output DC Connector			
CON2	4~6	V+	3.96 Pitch / 6Pin
	7~9	V-	

Block Diagram



Derating Curve



注：对于输入电压 85 - 115VAC/120 - 160VDC 需在温度降额的基础上进行输入电压降额。