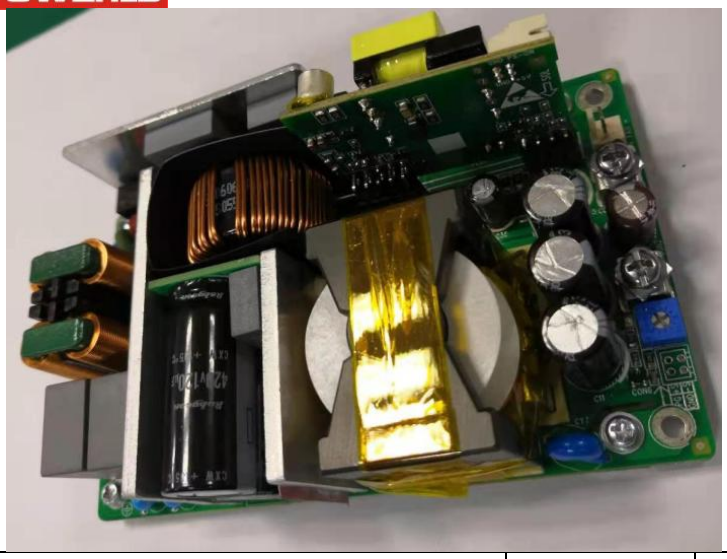
550W Reliable Green Medical Power Supply PSF-550S Series



Features:

- Universal input 80~264Vac or 113~370Vdc
- Built-in Active PFC, PF≥0.95
- 400W convention, 550W forced air
- No load power consumption<0.5W by PS_ON/OFF
- Extremely low leakage current≤0.1mA
- 12V/0.5A fan supply
- Output protections: SCP/OVP/OCP/OTP
- Wide operating ambient temperature (-40℃~70℃)
- Operating altitude up to 5000m
- 5"*3" Compact size
- 3 years warranty

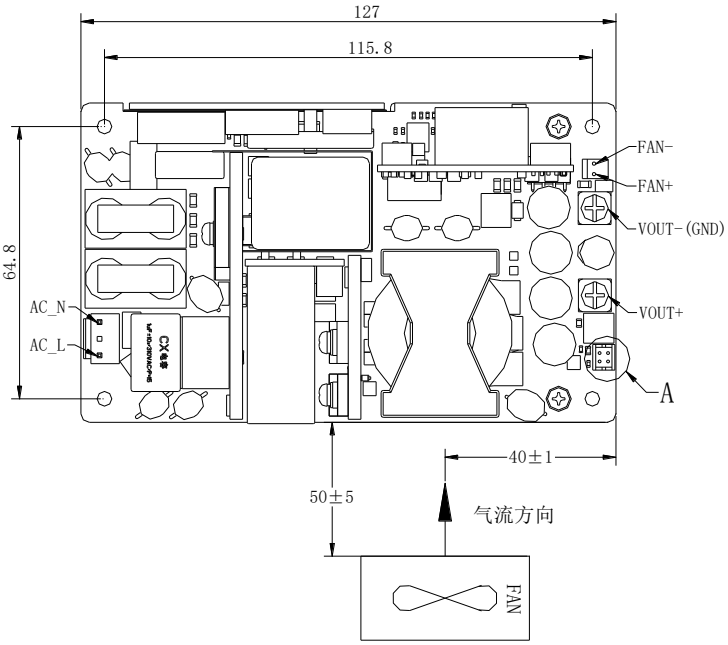
SPECIFICATION

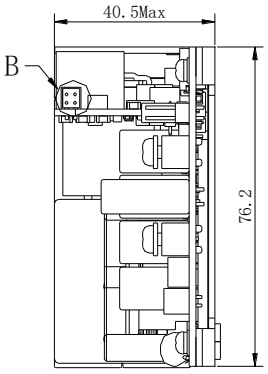
MODEL		PSF-550S-12	PSF-550S-24	PSF-550S-36	PSF-550S-48	PSF-550S-54
OUTPUT	DC Output	12V	24V	36V	48V	54V
	Rated Current (Convection)	33.4A	16.7A	11.1A	8.34A	7.4A
	Rated Current (16CFM forced air)	41.7A	22.9A	15.3A	11.46A	10.2A
	Rate Power(Convection)	400.8W	400.8W	399.6W	400.3W	399.6W
	Rate Power(16CFM forced air)	500.4W	549.6W	550.8W	550W	550.8W
	Ripple and Noise @25℃ Note 2	≤200mVp-p				
	Voltage ADJ. Range	11.4~12.6V	22.8~25.2V	34.2~37.8V	45.6~50.4V	50.5~54V
	Voltage Accuracy	±2%				
	Line Regulation	±1.0%				
	Load Regulation	±1.0%				
	Set-up Time	≤1.0S (230Vac input, Full load)				
	Hold up Time	8mS @115/230Vac input Full load				
	Temperature Coefficient	±0.02%/℃				
	Overshoot	<5.0%				
INPUT	Voltage Range Note 3	80~264Vac or 113～370Vdc				
	Rated input voltage range	100~240Vac				
	Frequency Range	47Hz-63Hz				
	Efficiency (Typical)	93.5%	94%	94%	94%	94%
	Power Factor(Typical)	≥0.95 @ 100~240Vac full load				
	AC Current (max.)	＜6.5A				
	Inrush Current (Typical)	＜40A@115Vac ; ＜80A @ 230Vac Cold start				
	Leakage Current	Touch current ≤0.1mA @ ac input to dc output				
PROTECTION	Over Current	110%~150%, hiccup mode, recovers automatically after fault condition is removed				
	Over Voltage	110%~130%, constant voltage, recovers automatically after fault condition is removed				
	Over temperature	Shut down o/p voltage, recovers automatically after temperature goes down				
	Short Circuit	Long-term mode, auto recovery				
ENVIRONMENT	Operating amb. Temp. & Hum.	-40℃ ~70℃; 20%~90%RH No condensing (refer to the derating curve)				
	Storage Temp. & Hum.	-40℃ ~85℃; 10%~95%RH No condensing				
	Operating altitude (Note 3)	5000 meters (Above 2000m, the ambient temperature decreases by 0.6° C for every 100m increase in altitude)				
SAFETY &EMC (Note 4)	Safety Standards	GB4943/IEC62368 / IEC60601				
	Withstand Voltage	Primary-Secondary: 4KVac/5mA; Primary to PG: 2.0KVac/5mA; Secondary-PG: 1.5Vac/5mA				
	Isolation Resistance	100M ohms				
	EMI Conduction&Radiation	Compliance to EN55032 Class B(Class I);				
	Harmonic Current	Compliance to EN61000-3-2, Class A				
	EMS Immunity	Compliance to EN61000-4-2,3,4,6,11;				
	MTBF (MIL-HDBK-217F)	More than 200,000Hrs (25℃)				

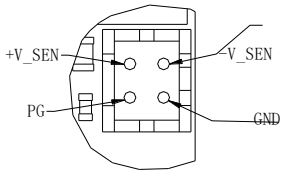
OTHERS	5V standby	5V/1A,tolerance ±2%, ripple : 120mVp-p(max.)
	PS_ON/OFF	Power ON: PS-ON/OFF, "Hi" or " > 2 ~ 5V" ; Power OFF: PS-ON/OFF,"Low" or " < 0 ~ 0.5V"
	POWER GOOD / POWER FAIL	500ms>PG>10ms ; The TTL signal goes high with 10ms to 500ms delay after power set up ; The TTL signal goes low at least 1ms before Vo below 90% of rated value
	Dimension (L*W*H)	127*76.2*40.5mm (5"*3"*1.59" inch)
	Packing	TBD
	Cooling method	400W free air convection; 550W with 16CFM forced air
NOTE	1. All parameters NOT specially mentioned are measured at rated 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 & 10uF parallel capacitor. 3. The ambient temperature derating of 0.5℃/100m for operating altitude higher than 2000m. 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.	

Mechanical Specification

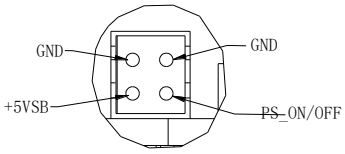
Unit: mm



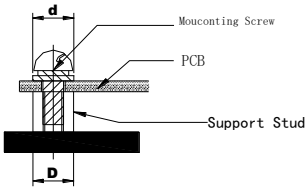




A
4:1



B
4:1



Use the screw M3 for mounting, the diameter of gasket d≤7mm
the riveting stud diameter of fixing PCB: d≤7mm

安装说明:

1,单位:mm

2,未注公差: GB/T 1084-m

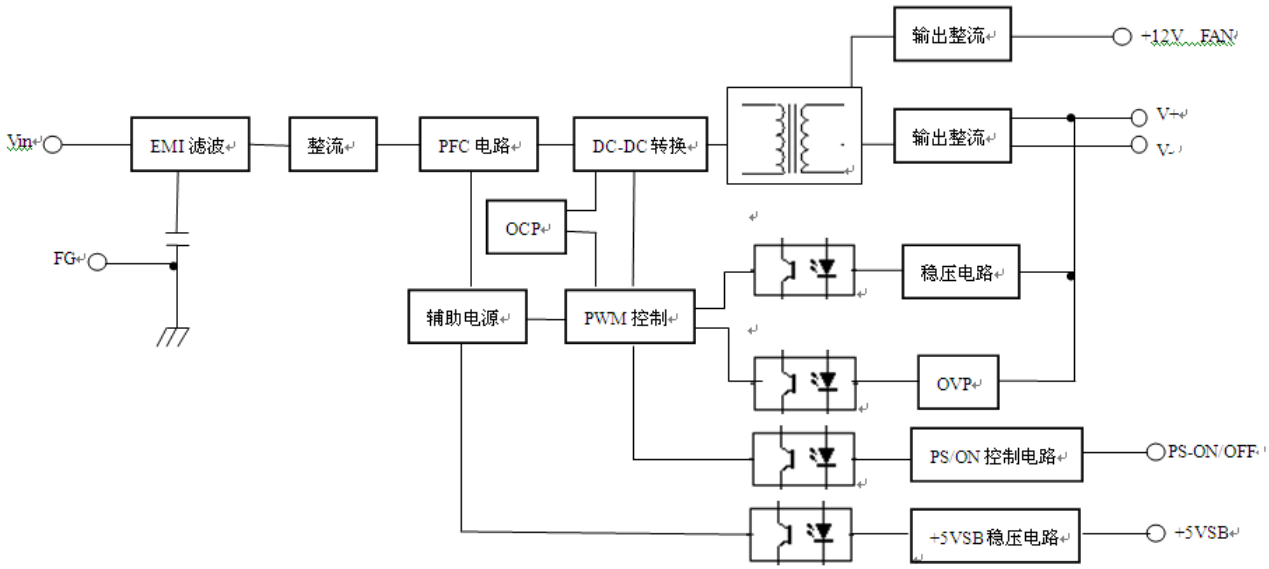
3,推荐客户安装时电源的底板贴到设备壳体，以便于电源的散热。

4,推荐使用风量大于等于16CFM，尺寸为40*20mm的风扇。

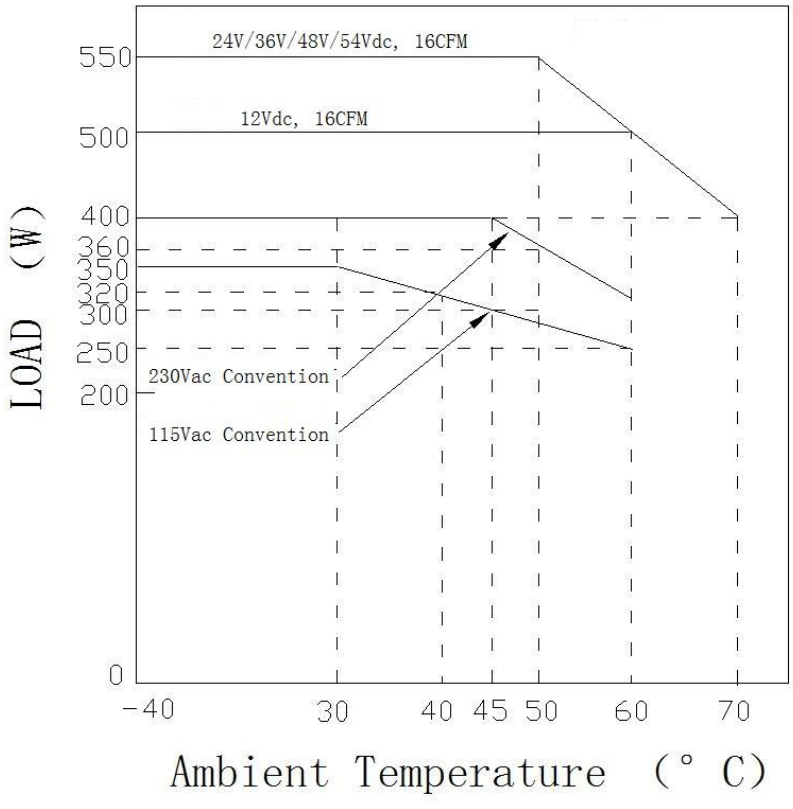
Definition of Connectors

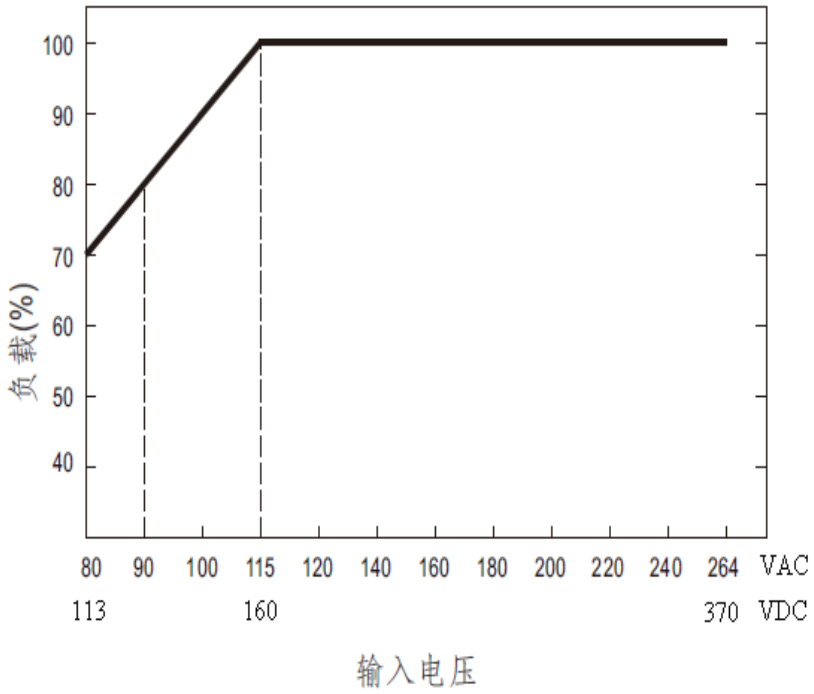
Location	No.of Pins	Function	Remark
CON1	1	AC-L	
	3	AC-N	
CON5	1	+5VSB	+5V&PS_ON/OFF
	2/4	GND	
	3	PS_ON/OFF	
CON4	1	FAN—	12V Fan connector
	2	FAN+	
CON6	1	—V_SEN	Remote compensation connector
	2	+V_SEN	
	3	GND	
	4	PG	
CON3	V-	VOUT—（GND）	
CON2	V+	VOUT+	

■ Block Diagram



■ Derating Curve




100
90
80
70
60
50
40
负载(%)
80 90 100 115 120 140 160 180 200 220 240 264 VAC
113 160 370 VDC
输入电压