

### Features:

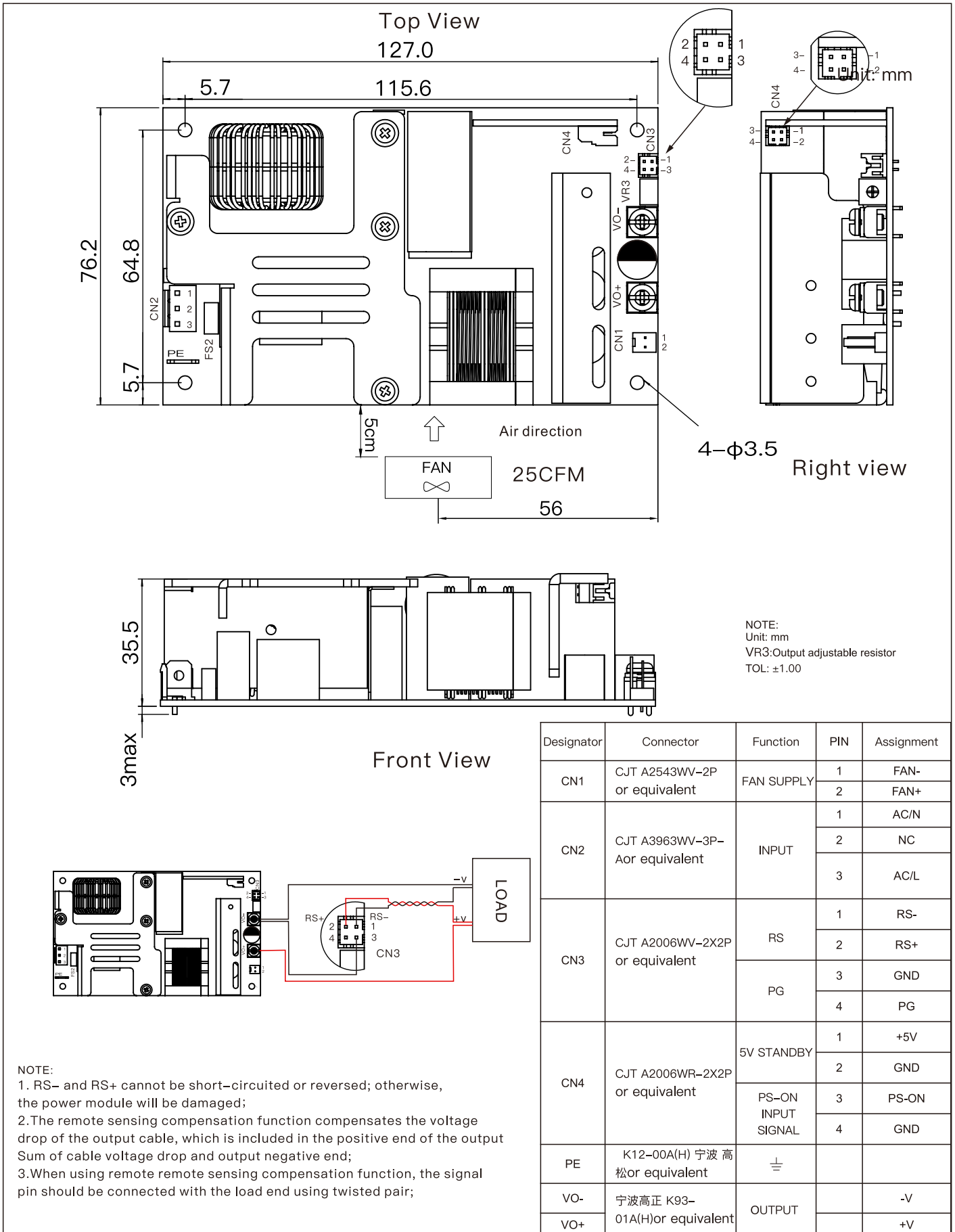
- Universal AC input 80~264VAC
- 5"x3" miniature size
- Refer to ANSI/AAMIES60601-1 and IEC/BSEN/EN60601-1 Medical Safety Certification (2xMOPP)
- Cooling by free air convection for 200W and 320W with 25CFM forced air
- No load power consumption < 0.5W by PS-ON control
- 5Vdc standby, 12V fan supply, power good, power Fail and remote sense
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Operate at 5000 meters above sea level
- 3 years warranty

### Specification

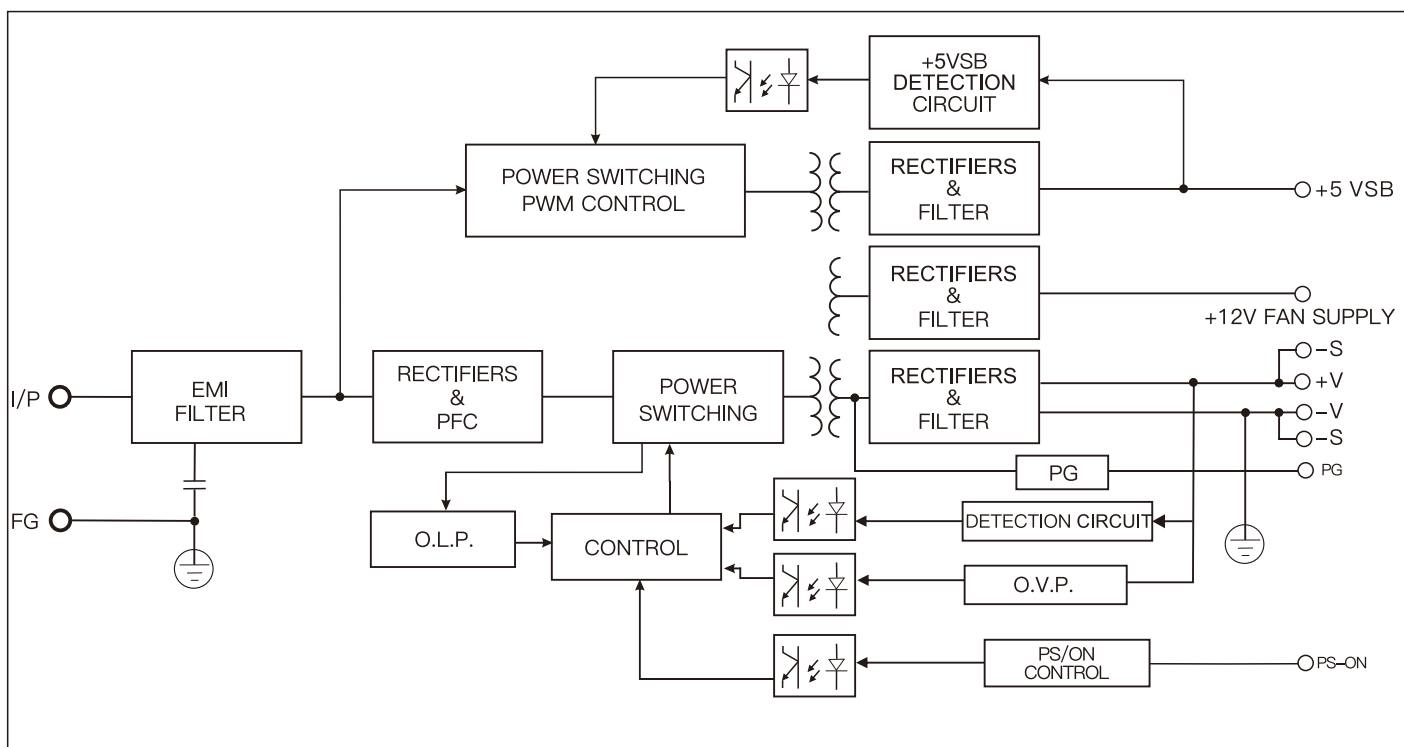
MODEL		PFS-320-12	PFS-320-15	PFS-320-24	PFS-320-27	PFS-320-36	PFS-320-48	
INPUT	VOLTAGE RANGE	80~264VAC (refer to 'static characteristic')						
	FREQUENCY RANGE	47~63Hz						
	POWER FACTOR	PF>0.93/230VAC PF>0.98/115VAC at full load						
	EFFICIENCY(Typ.)	90%	90%	92.5%	92.5%	93%	93%	
	AC CURRENT(Typ.)	3.5A/115VAC 1.8A/230VAC						
	INRUSH	35A/115VAC 70A/230VAC (cold start)						
	LEAKAGE CURRENT	Earth leakage current<200uA/264VAC 50Hz, touch current<70uA/264VAC						
OUTPUT	DC VOLTAGE	12V	15V	24V	27V	36V	48V	
	VOLTAGE ADJ.RANGE	11.4~12.6V	14.25~15.75V	22.8~25.2V	25.7~28.4V	34.2~37.8V	45.6~50.4V	
	RATED CURRENT	Convection	0~16.67A	0~13.33A	0~8.33A	0~7.4A	0~5.56A	0~4.17A
		25CFM	0~27A	0~21.6A	0~13.5A	0~11.1A	0~8.3A	0~6.75A
	RATED POWER	Convection	200W	200W	200W	200W	200W	200W
		25CFM	324W	324W	324W	300W	300W	324W
	RIPPLE&NOISE (max.)	120mVp-p	120mVp-p	150mVp-p	200mVp-p	225mVp-p	250mVp-p	
	VOLTAGE TOLERANCE	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	SETUP, RISE TIME	1000ms,30ms/230VAC 1500ms,30ms/115VAC at full load						
HOLD UP TIME(Typ.)	16ms/230VAC 16ms/115VAC at full load							
PROTECTION	OVER LOAD	105~135% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed						
	OVER VOLTAGE	13.5~15V	16.2~18.5V	26~30V	29.2~33.7V	39~33.7V	52~59.5V	
	OVER TEMPERATURE	Protection type: Shunt down, recovers after repower on						
FUNCTION	5V STANDBY	5Vsb : 5V@0.6A without fan, 1A with fan 25CFM ; tolerance 2%, ripple : 150mVp-p(max.)						
	FAN SUPPLY	12V@0.5A for driving a fan ; Tolerance -15% ~ +10% at main output 35% rated current						
	PS-ON INPUT SIGNAL	Power on: PS-ON = "Hi" or " 2 ~ 5V" ; Power off: PS-ON = "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						
ENVIRONMENT	WORKING TEMP	-30~+70°C (Refer to "Derating curve")						
	WORKING HUMIDITY	20~90%RH, non-condensing						
	STORAGE TEMP, HUMIDITY	-40~+85°C, 10~95%RH, non-condensing						
	TEMP. COEFFICIENT	±0.03% (0~50°C)						
	VIBRATION	10~500Hz, 2G10min./1 cycle, each along X、Y、Z axes						
	OPERATING ALTITUDE	5000m						

Specification				
Safety and electromagnetic compatibility	Safety standards	Refer to UL62368-1,TUV EN62368-1,CCC GB4943.1,EN60601-1(2XMOPP)		
	Withstand voltage and isolation resistance	I/P-O/P: 4KVac; 100MΩ / 500Vdc / 25°C / 70%RH		
		I/P-FG: 2KVac; 100MΩ / 500Vdc / 25°C / 70%RH		
		O/P-FG: 1.5KVac; 100MΩ / 500Vdc / 25°C / 70%RH		
	Electromagnetic compatibility emission	Parameter	Standard	Test Level / Note
		Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,GB9254.1	Class B
		Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,GB9254.1	Class B
		Harmonic current	BS EN/EN61000-3-2,GB17625.1	Class A
		Voltage flicker	BS EN/EN61000-3-3	----
	Electromagnetic compatibility immunity	BS EN/EN55035		
		Parameter	Standard	Test Level /Note
		ESD	BS EN/EN61000-4-2	Level 4, 8KV air, Level 2, 4KV contact, criteria A
		RF field susceptibility	BS EN/EN61000-4-3	Level 3, criteria A
		EFT bursts	BS EN/EN61000-4-4	Level 3, criteria A
Surge susceptibility		BS EN/EN61000-4-5	Level 4, 2KV/L-N, 4KV/L/N-FG	
Conducted susceptibility		BS EN/EN61000-4-6	Level 3, criteria A	
Magnetic field immunity		BS EN/EN61000-4-8	Level 4, criteria A	
Voltage dips and interruptions		BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods , >95% interruptions 250 periods	
OTHERS	DIMENSION	PCB: 127*76.2*35.5mm(L*W*H)		
	PACKING	0.37Kg; 36pcs/ 14.3Kg/ 0.96CUFT		
NOTE	<ol style="list-style-type: none"> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF &amp; 47uF parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>Line regulation is measured from low line to high line at rated load.</li> <li>Load regulation is measured from 0% to 100% rated load</li> <li>Length of set up time is measured at cold first start, Turning ON/OFF the power supply very quickly may lead to increase of the set up time.</li> <li>The ambient temperature derating of 5°C/1000m is needed for operating altitude great than 2000m(6500ft).</li> <li>The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives.</li> </ol>			

Mechanical specification



**Block diagram**



**Derating curve:**

