



Features:

- Universal AC input 80~264VAC
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 5"X3" miniature size
- High efficiency up to 94%
- No load power consumption<0.5W
- LED indicator for power on
- Cooling by free air convection for 140W and 220W with 10CFM forced air
- Built-in remote sense function
- Refer to medical safety (2XMOPP) according to ANSI/AAMI ES60601-1 and IEC/BS EN60601-1
- 3 years warranty

Specification

MODEL		PFS-220-24AOI		
INPUT	VOLTAGE RANGE	80~264VAC (Refer to "Static characteristics")		
	FREQUENCY RANGE	47~63Hz		
	POWER FACTOR	PF>0.93/230VAC PF>0.98/115VAC at full load		
	EFFICIENCY(Typ.)	93.5%		
	AC CURRENT(Typ.)	3A/115VAC 1.5A/230VAC		
	INRUSH CURRENT(Typ.)	30A/115VAC 60A/230VAC (cold start)		
	LEAKAGE CURRENT	Earth leakage current<130uA/264VAC, touch current<40uA/264VAC		
OUTPUT	DC VOLTAGE	24V		
	RATED CURRENT	10CFM	9.2A	
		Convection	5.9A	
	RATED POWER	10CFM	220.8W	
		Convection	141.6W	
	RIPPLE&NOISE (max.)	150mVp-p		
	VOLTAGE ADJ.RANGE	22.8~25.2V		
	VOLTAGE TOLERANCE	±1%		
	LINE REGULATION	±0.5%		
	LOAD REGULATION	±0.5%		
	SETUP, RISE TIME	500ms,50ms/230VAC 500ms,50ms/115VAC		
HOLD UP TIME(Typ.)	14ms/230VAC 14ms/115VAC			
PROTECTION	OVER LOAD	105%~135% rated output power Protection type: Shunt down, recovers after repower on		
	OVER VOLTAGE	29~35V Protection type: Shunt down, recovers after repower on		
	OVER TEMPERATURE	Protection type: Shunt down, recovers after repower on		
FUNCTION	REMOTE SENSE	Compensate voltage drop on the load wiring up to 0.5V		
ENVIRONMENT	WORKING TEMP., HUMIDITY	-30~+70°C (Refer to "Derating curve") , 20~90%RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40~+85°C, 10~95%RH		
	TEMP. COEFFICIENT	±0.03%/°C(0~50°C)		
	VIBRATION	10~500Hz, 2G 10min./1 cycle, each along X、Y、Z axes		

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 3, 1KV/L-N, 2KV/L/N-FG criteria A		
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	MTBF	108.4Khrs MIL-HDBK-217F(25°C)			
	DIMENSION	PCB: 127*76.2*29mm(L*W*H)			
	PACKING	0.24Kg; 48pcs/ 12.5Kg/ 1.2CUFT			
NOTE	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Line regulation is measured from low line to high line at rated load. Load regulation is measured from 0% to 100% rated load. 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. The ambient temperature derating of 5°C/1000m is needed for operating altitude great than 2000m(6500ft). 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. 				

Mechanical specification

Top View

Dimensions: 127.0, 115.6, 6.4, 5.0, 76.2, 64.8, 4-∅3.5

Labels: FAN, Air direction, 50mm, RS-, RS+, CN4, CN3, SVR1, LED, CN2, FS1, FS2, CN1

Front View

Dimensions: 3max, 29max

NOTE:
Unit: mm
SVR1: Output adjustable resistor
TOL: ±1.00

AC Input Connector (CN1) : CJT A3963WV-3P-A or equivalent

Pin No.	Assignment
1	AC/L
2	No Pin
3	AC/N

DC Output Connector (CN2) : CJT A3963WV-8P or equivalent

Pin No.	Assignment
1-4	+V
5-8	-V

REMOTE SENSE Connector(CN4) : CJT A2543WV-2P or equivalent

Pin No.	Assignment
1	RS-
2	RS+

Block diagram

