



125W Single output with PFC function

# 125W MW PPS-125 series



### Features :

- . Universal AC input / full range
- . Short circuit, over-load, over-voltage protected
- . PWM control and regulated
- . High power density 6.117W / inch<sup>3</sup>
- . Built-in remote sense function
- . LED indicator for power on
- . 100% full load burn-in test
- . 125W with 18CFM fan

. 3 years warranty



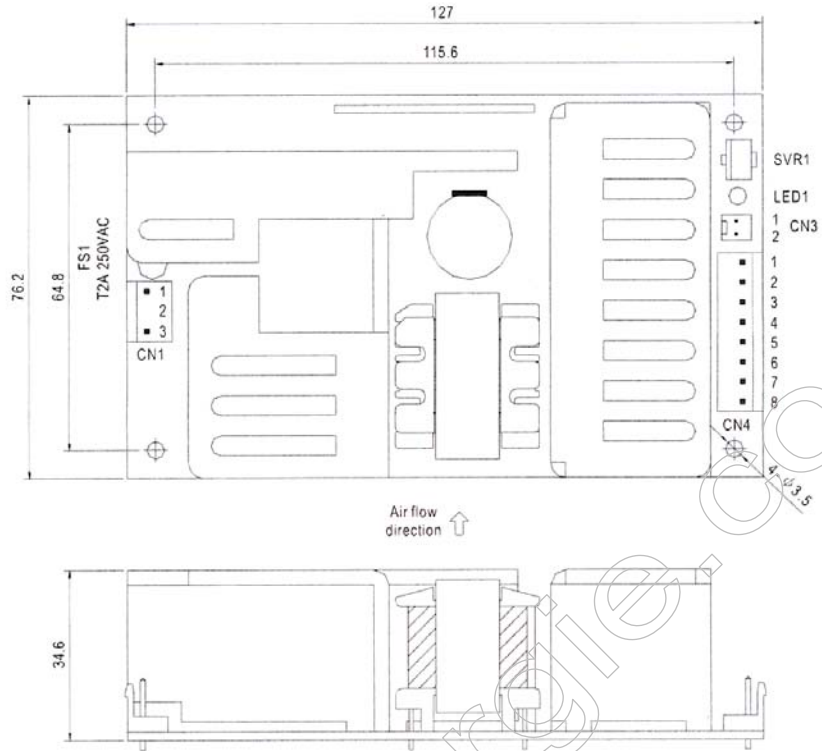
MODEL		PPS125 3.3	PPS125 5	PPS125 12	PPS125 13.5	PPS125 15	PPS125 24	PPS125 27	PPS125 48	
OUTPUT	DC VOLTAGE	3.3V	5V	12V	13.5V	15V	24V	27V	48V	
	RATED CURRENT	20A	20A	8.5A	7.5A	6.7A	4.2A	3.8A	2.1A	
	CURRENT RANGE	0~20A	0~20A	0~8.5A	0~7.5A	0~6.7A	0~4.2A	0~3.8A	0~2.1A	
	CURRENT RANGE (fan)	0~25A	0~25A	0~10.5A	0~9.3A	0~8.4A	0~5.2A	0~4.6A	0~2.6A	
	RATED POWER	66W	100W	102W	101.25W	100.5W	100.8W	102.6W	100.8W	
	RATED POWER (fan)	82.5W	125W	126W	125.5W	126W	124.8W	124.2W	124.8W	
	RIPPLE & NOISE	100mV	100mV	100mV	100mV	100mV	150mV	150mV	250mV	
	VOLTAGE ADJ. RANGE	3.13~3.46	4.75~5.25	11.4~12.6	12.8~14.1	14.2~15.7	22.8~25.2	25.6~28.3	45.6~50.4	
	VOLTAGE TOLERANCE	±2%	±2%	±2%	±2%	±2%	±1	±1	±1	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
LOAD REGULATION	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%		
SETUP, RISE, HOLD time		1000ms, 30ms, 20ms / 230 VAC ; 2000ms, 30ms, 20ms / 115 VAC at full load								
INPUT	VOLTAGE RANGE		90~264 VAC 127~370 VDC							
	FREQUENCY RANGE		47~63Hz							
	POWER FACTOR		PF>0.93/230VAc PF>0.98/115VAC at full load							
	EFFICIENCY ( typ.)		70%	79%	80%	80%	80%	83%	83%	83%
	AC current	115 VAC	1.2A	1.7A						
		230 VAC	0.6A	0.75A						
INRUSH CURRENT		COLD START 40A / 230 VAC								
LEAKAGE CURRENT		<2mA / 240 VAC								
PROT°	OVER LOAD		130~160% rated output power Protection : Fold back current limiting, recovers automatically after fault condition is removed							
	OVER VOLTAGE		3.63~4.45	5.5~6.75	13.8~16.2	15.5~20.2	17.2~20.2	27.6~32.4	31.05~36.4	57.6~67.2
		Protection type : hiccup mode, recovers automatically after fault condition is removed.								
ENV.†	WORKING TEMP.		-20~+70°C ( Refer to output derating curve )							
	WORKING HUMIDITY		20~90% Relative Humidity ( non -condensing )							
	STORAGE TEMP., HU.		-40~+85°C, 10~95% R.H.							
	TEMP. COEFFICIENT		±0.05%/°C (0~50°C)							
	VIBRATION		10~500Hz, 2G 10min./1cycle, 60 min. each along X,Y, Z axes							
SAFETY & EMC	SAFETY STANDARDS		UL60950-1, TUV EN60950-1 approved							
	WITHSTAND VOLTAGE		I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC							
	ISOLATION RESISTANCE		I/P-O/P, I/P-F/G, O/P-FG: 100MΩ / 500 VDC							
	EMI CONDUCT. & RADIA.		Compliance to EN55022 ( CISPR22) Class B							
	HARMONIC CURRENT		Compliance to EN61000-3-2,3							
	EMS IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8 1 ; ENV50204, EN55024, Light industry level, criteria A							
OTHERS	MTBF		111.7 K hours min. MIL-HDBK-217F (25°C)							
	DIMENSIONS		127 x 76.2 x 34.6 mm ( L x W x H )							
	WEIGHT / PACKING		370 gr / 36pcs box / 13.3 Kg / 0.86 CUFT							

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C ambient temperature.
- Ripple & Noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1yF & 47uF parallel capacitor.
- Tolerance : include set-up tolerance, line regulation, load regulation.
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that is still meets EMC directives.

■ Mechanical Specification

Unit:mm



AC Input Connector (CN1) : JST B3P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	No Pin		
3	AC/N		

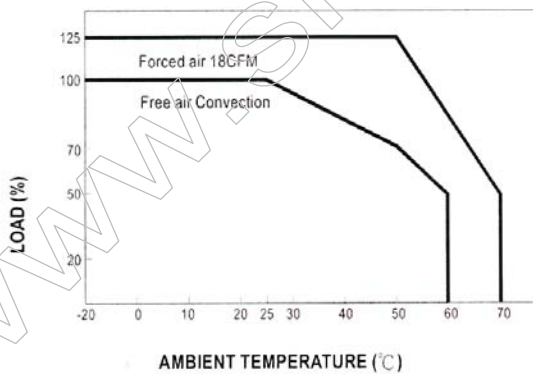
DC Output Connector (CN4) : JST B8P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1-4	-V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
5-8	+V		

(CN3) : Remote Sense

Pin No.	Assignment
1	RS-
2	RS+

■ Derating Curve



■ Output Derating VS Input Voltage

