

- Universal AC input
- Protections: Short circuit / Overload / Over voltage
- Built-in active PFC function
- PWM control and regulated
- High power density 6.117W/cubic inch
- LED indicator for power on
- 125W with 18CFM FAN
- 5"x3" compact size



Model Number Output Volts Output Amps Ripple & Noise Load Reg Tolerance Min Load(Convection) Min Load(18CFM FAN)
TRIPLE OUTPUT

PPT125-A	3.3 Volts(DC)	10 Amps	100mVpk-pk	±3.0%	±3.0%	1.0~10Amps	1.0~12.5Amps
	5 Volts(DC)	8.0 Amps	100mVpk-pk	±3.0%	±5.0%	0.8~8.0Amps	0.8~10Amps
	12 Volts(DC)	0.5 Amps	120mVpk-pk	±5.0%	±6.0%	0.05~0.5Amps	0.05~0.63Amps
PPT125-B	5 Volts(DC)	11.5 Amps	100mVpk-pk	±3.0%	±3.0%	1.0~11.5Amps	1.0~14.38Amps
	12 Volts(DC)	3.0 Amps	120mVpk-pk	±3.0%	±5.0%	0.3~3.0Amps	0.3~3.755Amps
	-12 Volts(DC)	0.5Amps	120mVpk-pk	±5.0%	±6.0%	0.05~0.5Amps	0.05~0.63Amps
PPT125-C	5 Volts(DC)	11 Amps	100mVpk-pk	±3.0%	±3.0%	1.0~11Amps	1~13.75Amps
	15 Volts(DC)	2.5 Amps	150mVpk-pk	±3.0%	±5.0%	0.25~2.5Amps	0.25~3.13Amps
	-15 Volts(DC)	0.5 Amps	150mVpk-pk	±5.0%	±6.0%	0.05~0.5Amps	0.05~0.63Amps
PPT125-D	5 Volts(DC)	7.0 Amps	100mVpk-pk	±3.0%	±3.0%	1.0~7.0Amps	1.0~8.75Amps
	24 Volts(DC)	2.5 Amps	240mVpk-pk	±3.0%	±5.0%	0.25~2.5Amps	0.25~3.13Amps
	12 Volts(DC)	0.5Amps	120mVpk-pk	±5.0%	±6.0%	0.05~0.5Amps	0.05~0.63Amps

125W Triple Output with PFC Function

PPT125 series

INPUT SPECIFICATIONS

Input Voltage Range	90-264VAC / 127-370 Volts(DC)
Frequency Range	47-63 Hz
Inrush Current, typ: (cold start)	24Amps @ 230VAC
Input Current	1.7 Amps max @ 115VAC 0.75 Amps max @ 230VAC
Leakage current	< 2mA / 240 VAC
Power Factor	PF >0.93 / 230VAC >0.98 / 115VAC

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line Regulation	±0.5%
Load Regulation	See Selection Chart
Voltage Tolerance (Note 2)	See Selection Chart
Ripple/Noise (Note 1)	See Selection Chart
Hold Up Time @ FL	24mS @ 230VAC 24mS @ 115VAC
Setup, Rise Time @ FL	1000mS, 30mS/230VAC 2000mS, 30mS/115VAC
Over Voltage Protection	5.75~6.75Volts: 5Volts(DC) (PPT125B/C/D) 3.6~4.45Volts: 3.3Volts(DC) (PPT125A) Hiccup mode, auto recover
Over Current Protection	130~160% rated output power Fold back current limiting, auto-recover
DC Voltage Adjust	4.75~5.25Volts: 5Volts(DC) (PPT125B/C/D) 3.13~3.46Volts: 3.3Volts(DC) (PPT125A)

GENERAL SPECIFICATIONS

Safety	UL60950-1 TUV EN60950-1 approved
Insulation Resistance	≥ 100MΩ / 500Volts(DC) / 25°C / 70%RH
EMI	Compliance to EN55011B (CISPR11B)
Harmonic Current	Compliance to EN61000-3-2,-3
Efficiency	77% (PPT125-A) 78% (PPT125B/C/D)

Isolation	3000VAC Input - Output 1500VAC Input - Ground 500VAC Output - Ground
EMS	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-20°C to +70°C (See Derate Curve)
Storage Temperature	-40°C to +85°C, 10~95% RH
Relative Humidity	20 to +90% RH
Temperature Coefficient	±0.05% / °C (0-50°C)
MTBF	94.7KHrs min, MIL-HDBK-217F (25°C)
Vibration	10~500Hz, 2G10min./1cycle, period for 60min. each along X, Y, Z axes

PHYSICAL SPECIFICATIONS

Size	
Millimeters	127 x 76.2 x 34.6
Inches	5" x 3" x 1.36"
Weight	13.05 oz (370g)

NOTE

1. Ripple and Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47 uf parallel capacitor.
2. Tolerance: includes set up tolerance, line regulation and load regulation.
3. Heat Sink HS1,HS2 & HS3 can not be shorted.

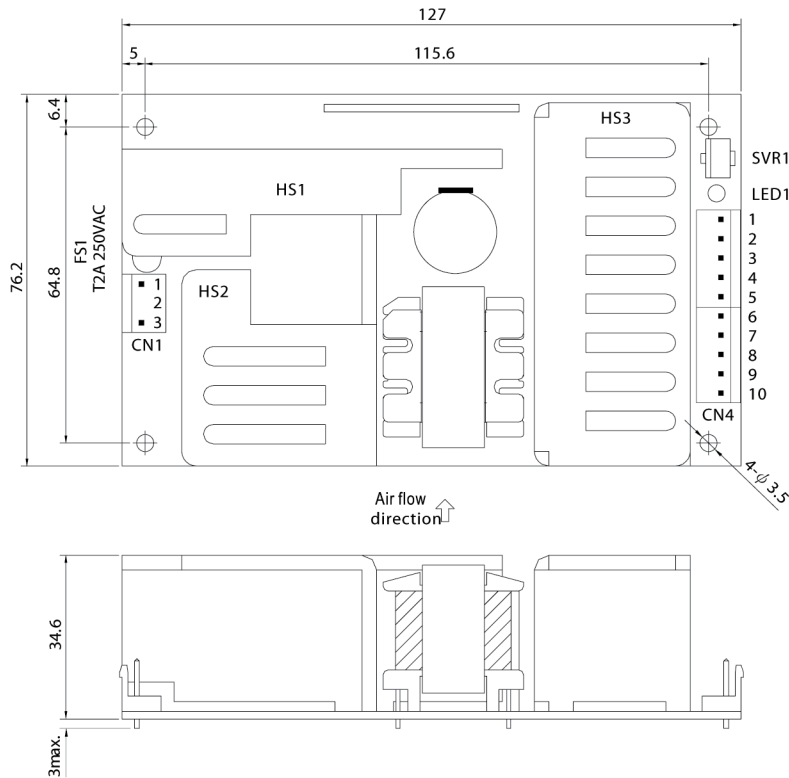
All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

125W Triple Output with PFC Function

PPT125 series

Mechanical Specification

Unit:mm



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

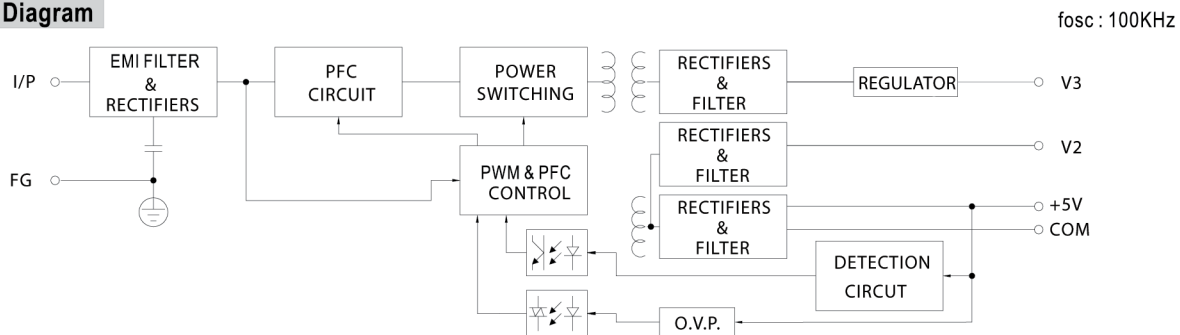
Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	No Pin		
3	AC/N		

DC Output Connector (CN4) : JST B5P-VH*2 or equivalent

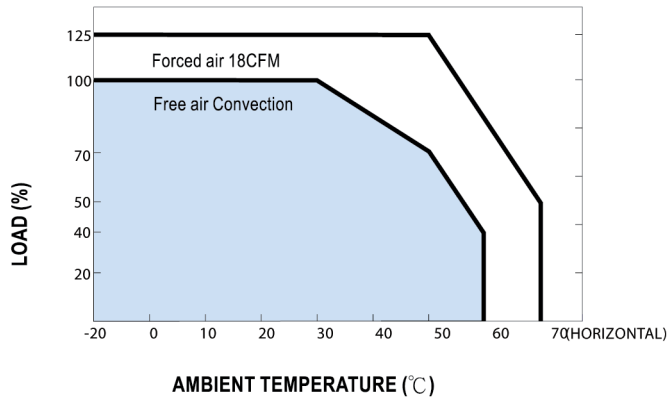
Pin No.	Assignment	Mating Housing	Terminal
1	CH3	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2,3	CH2		
4~8	GND		
9,10	CH1		

⚠ HS1, HS2 & HS3 can not be shorted

Block Diagram



■ Derating Curve



■ Output Derating VS Input Voltage

