



■ Features :

- 4"x2" miniature size
- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 90.5%
- Protections: Short circuit / Overload / Over voltage
- 75W free air convection, 100W with 20CFM forced air
- LED indicator for power on
- No load power consumption<0.5W
- 3 years warranty



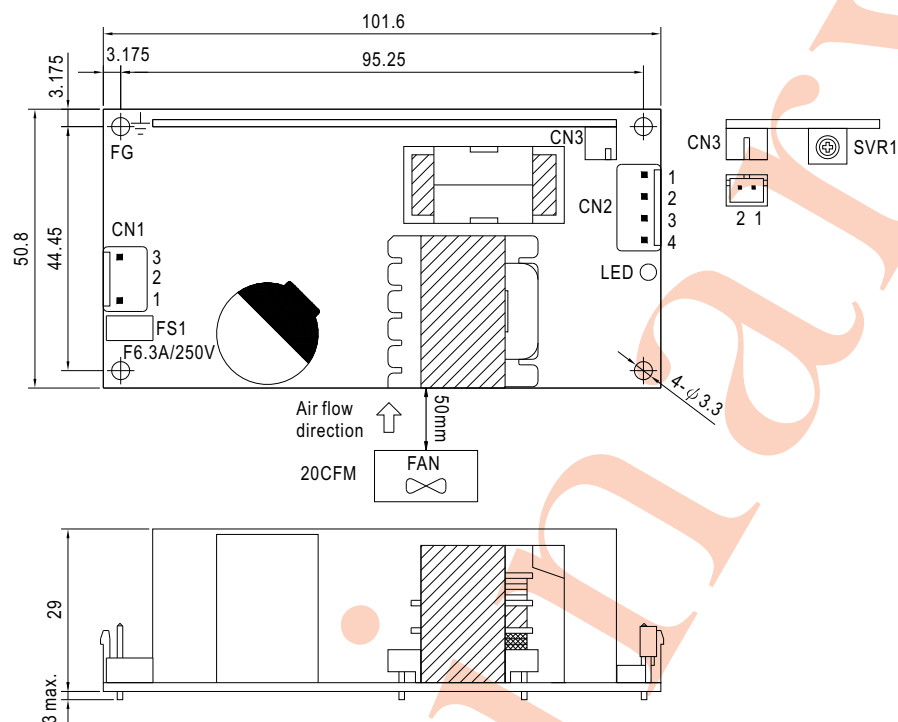
SPECIFICATION

MODEL		EPP-100-12	EPP-100-15	EPP-100-24	EPP-100-27	EPP-100-48
OUTPUT	DC VOLTAGE	12V	15V	24V	27V	48V
	RATED CURRENT (convection)	6.3A	5A	3.2A	2.8A	1.6A
	RATED CURRENT (20CFM FAN)	8.5A	6.67A	4.2A	3.71A	2.1A
	CURRENT RANGE (convection)	0 ~ 6.3A	0 ~ 5A	0 ~ 3.2A	0 ~ 2.8A	0 ~ 1.6A
	CURRENT RANGE (20CFM FAN)	0 ~ 8.5A	0 ~ 6.67A	0 ~ 4.2A	0 ~ 3.71A	0 ~ 2.1A
	RATED POWER (convection)	75.6W	75W	76.8W	75.6W	76.8W
	RATED POWER (20CFM FAN)	102W	100W	100.8W	100.17W	100.8W
	RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p	240mVp-p	240mVp-p	300mVp-p
	VOLTAGE ADJ. RANGE	11.76 ~ 12.6V	14.7 ~ 15.75V	23.52 ~ 25.2V	26.46 ~ 28.35V	42.04 ~ 50.4V
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME	1000ms, 30ms/230VAC 2000ms, 30ms/115VAC at full load				
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load				
	VOLTAGE RANGE Note.5	90 ~ 264VAC 127 ~ 370VDC				
INPUT	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load				
	EFFICIENCY (Typ.)	89%	89%	90.5%	90.5%	90.5%
	AC CURRENT (Typ.)	1.8A/115VAC 1 A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 80A/230VAC				
	LEAKAGE CURRENT	<2mA/240VAC				
PROTECTION	OVER LOAD	105 ~ 135% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	31 ~ 36.5V	53.3 ~ 64.8V
		Protection type : Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE	95°C ±10°C (RTH2), 85°C ±10°C (TSW2) Protection type : Shut down o/p voltage, re-power on to recover				
FUNCTION	FAN CONTROL (TYPE)	Main output load ≥ 10% : Fan ON				
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				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 45°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY & EMC (Note 4)	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-FG, O/P-FG:100M Ohms / 500VDC/ 500VDC / 25°C / 70% RH				
	EMC EMISSION	Compliance to EN55022 (CISPR22), EN61000-3-2,-3				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, heavy industry level, criteria A				
OTHERS	MTBF	Khrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	101.6*50.8*29mm (L*W*H)				
	PACKING	Kg				

- NOTE**
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
 3. Tolerance : includes set up tolerance, line regulation and load regulation.
 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
 5. Derating may be needed under low input voltages. Please check the derating curve for more details.

Mechanical Specification

Unit:mm



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

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

DC Output Connector (CN2) : JST B4P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2	DC COM	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3,4	+V		

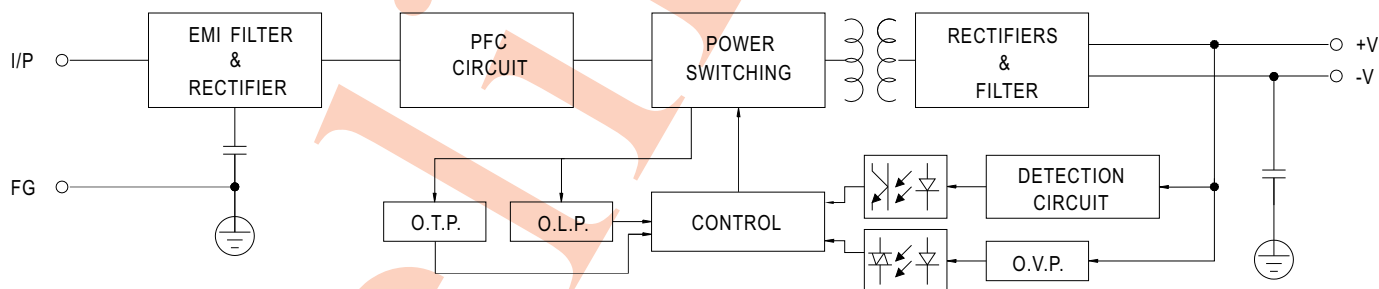
FAN Connector(CN105) : JST B2B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	+12V	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
2	DC COM		

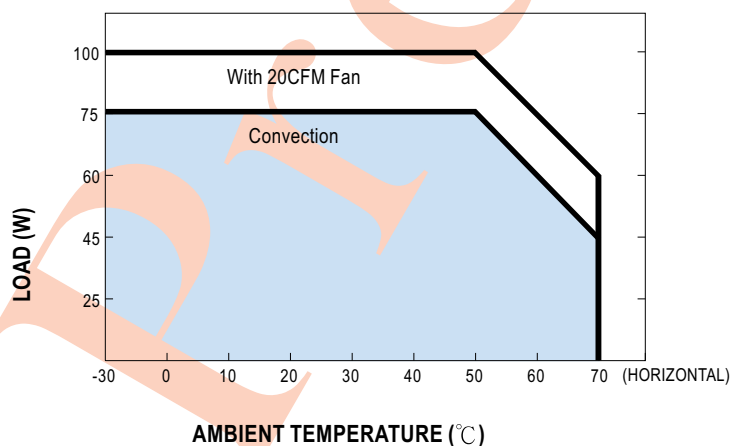
※12V@0.3A for driving a fan, tolerance±10%

fosc : 100KHz

Block Diagram



Output Derating



Output Derating VS Input Voltage

