



■ Features :

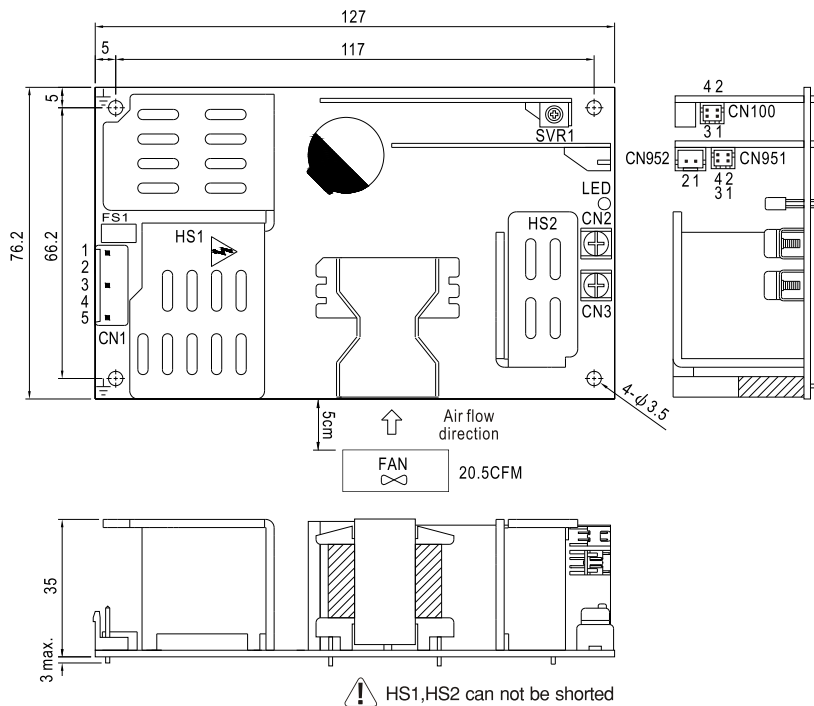
- Universal AC input / Full range
- Built-in active PFC function
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in 12V/0.5A auxiliary output
- 5"x3" compact size
- Free air convection for 200W and 300W with 20.5 CFM forced air
- With power good and fail signal output
- Built-in remote sense function
- No load power consumption under 0.5W by PS-ON control
- Standby 5V@1A with fan @ 0.6A without fan



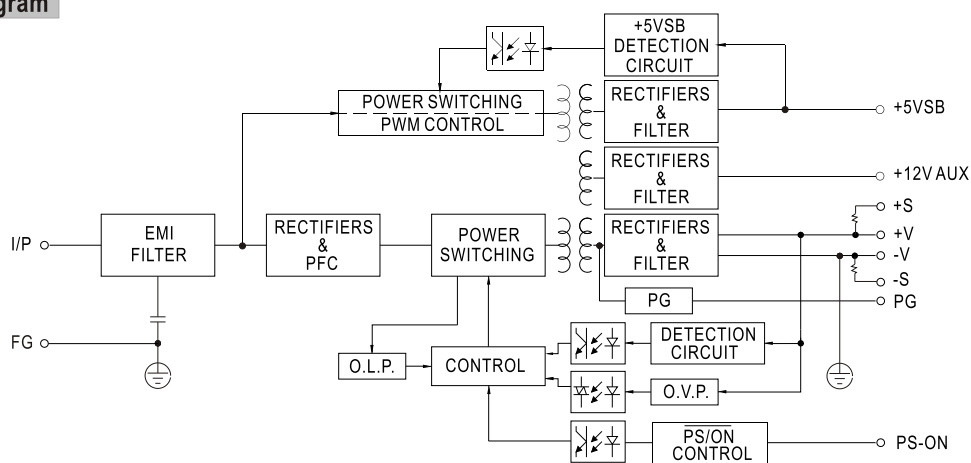
SPECIFICATION

MODEL	EPP-300-12		EPP-300-15		EPP-300-24		EPP-300-27		EPP-300-48			
OUTPUT	DC VOLTAGE	12V		15V		24V		27V		48V		
	RATED CURRENT (20.5CFM)	25A		20A		12.5A		11.12A		6.25A		
	CURRENT RANGE (convection)	0 ~ 16.67A		0 ~ 13.33A		0 ~ 8.33A		0 ~ 7.4A		0 ~ 4.17A		
	CURRENT RANGE (20.5CFM)	0 ~ 25A		0 ~ 20A		0 ~ 12.5A		0 ~ 11.12A		0 ~ 6.25A		
	RATED POWER (convection)	200W		200W		200W		200W		200W		
	RATED POWER (20.5CFM)	300W		300W		300W		300.24W		300W		
	RIPPLE & NOISE (max.) Note.2	120mVp-p		120mVp-p		150mVp-p		200mVp-p		250mVp-p		
	VOLTAGE ADJ. RANGE	Main output:11.4 ~ 12.6V		Main output:14.25 ~ 15.75V		Main output:22.8 ~ 25.2V		Main output:25.65 ~ 28.35V		Main output:45.6 ~ 50.4V		
	VOLTAGE TOLERANCE Note.3	± 3.0%		± 3.0%		± 2.0%		± 2.0%		± 2.0%		
	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	2500ms, 30ms/230VAC 3000ms, 30ms/115VAC at full load											
HOLD UP TIME (Typ.)	13ms/230VAC/115VAC at full load											
INPUT	VOLTAGE RANGE Note.5	90 ~ 264VAC		127 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz										
	POWER FACTOR (Typ.)	PF>0.93/230VAC		PF>0.98/115VAC at full load								
	EFFICIENCY (Typ.)	90%		90%		92.5%		93%		93%		
	AC CURRENT (Typ.)	3.5A/115VAC		1.8A/230VAC								
	INRUSH CURRENT (Typ.)	COLD START 40A/115VAC		80A/230VAC								
	LEAKAGE CURRENT	<2mA/240VAC										
PROTECTION	OVERLOAD	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		29.5 ~ 33.5V		52 ~ 59.5V		
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover										
		110°C ± 5°C(TSW1) detect on heatsink of power transistor										
		115 ± 5°C(12V,15V),85 ± 5°C(24V,27V,48V) (TSW2) detect on heatsink of output diode										
		Protection type : (TSW1)Shut down o/p voltage, recovers automatically after temperature goes down										
Protection type : (TSW2)Shut down o/p voltage, re-power on to recover												
FUNCTION	5V STANDBY	5VSB : 5V@0.6A without fan, 1A with fan 20.5CFM ; tolerance ± 2%, ripple : 150mVp-p(max.)										
	AUXILIARY POWER (AUX)	12V@0.5A for driving a fan ; tolerance ± ¹⁰ / ₁₅ %										
	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										
	TEMP. COEFFICIENT	± 0.03%/°C(0 ~ 50°C)										
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 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:2KVAC O/P-FG:0.5KVAC										
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C@70% RH										
	EMC EMISSION	Compliance to EN55011 (CISPR11), EN55022 (CISPR22),Conduction:Class B, Radiation Class A;EN61000-3-2, -3										
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN60601-1-2, criteria A										
OTHERS	MTBF	160Khrs min. MIL-HDBK-217F (25°C)										
	DIMENSION	127*76.2*35mm (L*W*H)										
	PACKING	0.37 Kg; 36pcs/14.3Kg/1.03CUFT;										
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°Cof 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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 5. Derating may be needed under low input voltages. Please check the derating curve for more details. 6. Heat Sink HS1,HS2 can not be shorted.											

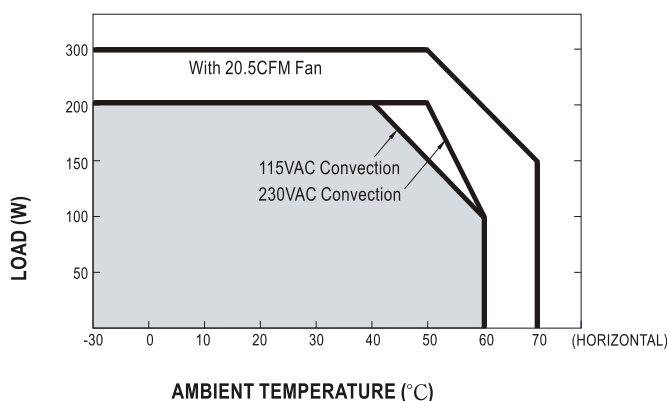
Mechanical Specification



Block Diagram



Derating Curve



Output Derating VS Input Voltage

