



■ Features :

- Universal AC input / Full range
- Built-in active PFC function, $PF \geq 0.94$
- High efficiency up to 84%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- 1U low profile 36mm
- Conformal coated
- Built-in cooling fan ON-OFF control
- ZVS technology to reduce power dissipation
- LED indicator for power on
- 3 years warranty



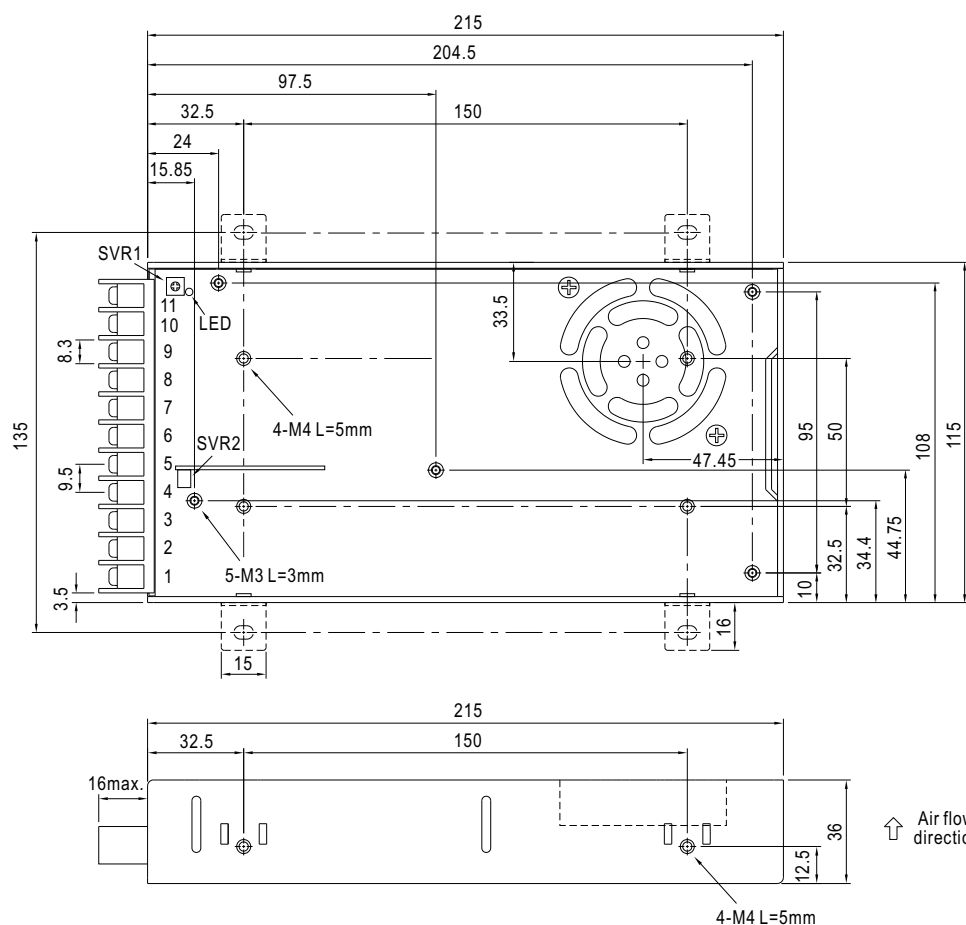
SPECIFICATION

MODEL		HDP-240	
OUTPUT	OUTPUT NUMBER	V1	V2
	DC VOLTAGE	+3.8V	+2.8V
	RATED CURRENT	41.5A	25A
	CURRENT RANGE (max.)	0 ~ 50A	0 ~ 27.5A
	RATED POWER	227.7W (typ.) 241W (max.)	
	OUTPUT POWER (max.)	241W continue. V1 total power output shall not exceed 200W (max. 50A) ; V2 total power output shall not exceed 82.5W (max. 27.5A) (The V1 & V2 combine total power output shall not exceed 241W)	
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p
	VOLTAGE ADJ. RANGE Note.6	3.6 ~ 4V	2.5 ~ 3V
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±2.0%	±2.0%
	SETUP, RISE TIME	1000ms, 50ms/230VAC 2500ms, 50ms/115VAC at full load	
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load	
INPUT	VOLTAGE RANGE Note.5	90 ~ 264VAC	127 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR (Typ.)	PF ≥ 0.94/230VAC PF ≥ 0.98/115VAC at full load	
	EFFICIENCY (Typ.)	84%	
	AC CURRENT (Typ.)	3.3A/115VAC	1.3A/230VAC
	INRUSH CURRENT (Typ.)	30A/115VAC	45A/230VAC
	LEAKAGE CURRENT	<2mA / 240VAC	
PROTECTION	OVERLOAD	V1+V2: 105 ~ 150% max. output power ; or V2: 125 ~ 170% rated current Protection type: Hiccup mode, recovers automatically after fault condition is removed	
	OVER VOLTAGE	V1: 4.37 ~ 5.13V	V2: 3.22 ~ 3.78V Protection type : Shut down o/p voltage, re-power on to recover
	OVER TEMPERATURE	80℃ ±5℃ (TSW1) detect on heatsink of power transistor Protection type : Shut down o/p voltage, re-power on to recovery	
	FAN CONTROL (Typ.)	RTH4 ≥ 50℃ Fan on ; RTH4 ≤ 45℃ Fan off	
ENVIRONMENT	WORKING TEMP.	-30 ~ +70℃ (Refer to "Derating Curve")	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)	
	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:1.5KVAC O/P-FG:0.5KVAC	
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH	
	EMC EMISSION	Compliance to EN55022 (CISPR22) class B, EN61000-3-2,-3	
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, heavy industry level, criteria A	
	MTBF	111.3K hrs min. MIL-HDBK-217F (25℃)	
	DIMENSION	215*115*36mm (L*W*H)	
	PACKING	1Kg; 15pcs/16Kg/0.7CUFT	
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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. 6. Output voltage between V1 and V2 should be higher than 0.8V(V1-V2 ≥ 0.8V).		

■ Mechanical Specification

Case No.206A

Unit:mm



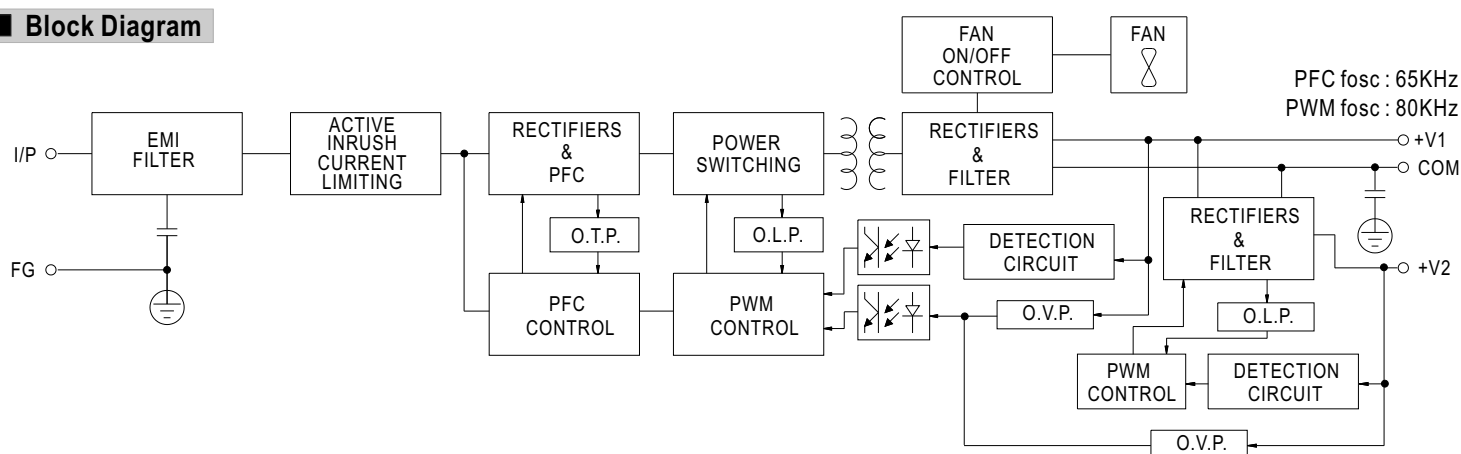
Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4,5	V2(+2.8V)
2	AC/N	6,7	V1(+3.8V)
3	FG $\perp$	8,9,10,11	COM

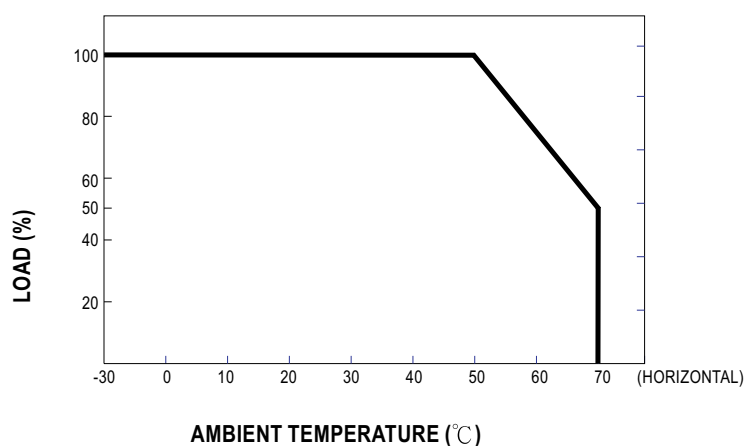
SVR1: V1(+3.8V)ADJ.

SVR2: V2(+2.8V)ADJ.

■ Block Diagram



Derating Curve



■ Output Derating VS Input Voltage

