



## ■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 87%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- \* Forced air cooling by built-in DC fan
- 1U low profile 41mm
- Conformal coated
- Built-in cooling fan ON-OFF control
- Built-in remote sense function
- 3 years warranty











## **SPECIFICATION**

MODEL		HSP-250-2.5	HSP-250-3.6	HSP-250-5	
ОИТРИТ	DC VOLTAGE	2.5V	3.6V	5V	
	RATED CURRENT	50A	50A	50A	
	CURRENT RANGE	0 ~ 50A	0 ~ 50A	0 ~ 50A	
	RATED POWER	125W	180W	250W	
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	100mVp-p	
	VOLTAGE ADJ. RANGE	2.3 ~ 2.8V	3.24 ~ 3.96V	4.5 ~ 5.5V	
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	
	SETUP, RISE TIME	3000ms, 50ms/230VAC 3000ms, 50	ms/115VAC at full load	-	
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load			
INPUT	VOLTAGE RANGE Note.5	85 ~ 264VAC 120 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load			
	EFFICIENCY (Typ.)	79%	83%	87%	
	AC CURRENT (Typ.)	1.5A/115VAC 0.75A/230VAC	2A/115VAC 1A/230VAC	2.8A/115VAC 1.4A/230VAC	
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC			
	LEAKAGE CURRENT	<0.6mA/240VAC			
PROTECTION	OVERLOAD	105 ~ 135% rated output power			
		Protection type: Hiccup mode, recovers automatically after fault condition is removed			
	OVER VOLTAGE	2.88 ~ 3.38V	4.14 ~ 4.86V	5.75 ~ 6.75V	
		Protection type: Shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down			
FUNCTION	FAN CONTROL	RTH3≦60±10°C Fan on ; RTH3≦40±10°C Fan off			
ENVIRONMENT	WORKING TEMP.	-40 ~ +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 STANDARDS	UL60950-1, TUV EN60950-1, EAC TP TC 004 approved			
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH			
(Note 4)	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3			
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, heavy industry level, criteria A			
OTHERS	MTBF	179.7K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	199*105*41mm (L*W*H)			
	PACKING	0.97Kg;16pcs/16.5Kg/0.87CUFT			
NOTE	Ripple & noise are measure Tolerance: includes set up The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p	cially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Sured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Up tolerance, line regulation and load regulation. Sidered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to s, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) I under low input voltages. Please check the derating curve for more details.			



