

600W Single Output with PFC Function

HRP-600 series



Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.94
- High efficiency up to 89%
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in constant current limiting circuit
- Built-in cooling fan ON-OFF control
- Built-in DC OK signal
- Built-in remote sense function
- 5 years warranty



SPECIFICATION

MODEL		HRP-600-3.3	HRP-600-5	HRP-600-7.5	HRP-600-12	HRP-600-15	HRP-600-24	HRP-600-36	HRP-600-48
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V
OUTPUT	RATED CURRENT	120A	120A	80A	53A	43A	27A	17.5A	13A
	CURRENT RANGE	0~120A	0~120A	0~80A	0~53A	0~43A	0~27A	0~17.5A	0~13A
	RATED POWER	396W	600W	600W	636W	645W	648W	630W	624W
	RIPPLE & NOISE (max.) Note.2		100mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-p
	VOLTAGE ADJ. RANGE	2.8 ~ 3.8V	4.3 ~ 5.8V	6.8 ~ 9V	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	28.8 ~ 39.6V	40.8 ~ 55.2V
	VOLTAGE TOLERANCE Note.3		±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	1000ms, 50ms/230VAC 2500ms, 50ms/115VAC at full load							
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load							
INPUT	()1 /	85 ~ 264VAC 120 ~ 370VDC							
		47 ~ 63Hz							
		47 ~ 63HZ PF>0.94/230VAC PF>0.99/115VAC at full load							
	POWER FACTOR (Typ.)					000/	0.00/	000/	0.00/
	EFFICIENCY (Typ.)	78.5%	82%	87%	88%	88%	88%	89%	89%
	AC CURRENT (Typ.)	8.5A/115VAC 5A/230VAC							
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC							
	LEAKAGE CURRENT	<1.2mA/240VAC							
PROTECTION	OVERLOAD	105 ~ 135% rated output power							
	Protection type : Constant current limiting, recovers automatically after fault condition is removed								1
	OVER VOLTAGE	3.96~4.62V	6 ~ 7V	9.4 ~ 10.9V	14.4 ~ 16.8V	18.8 ~ 21.8V	30~34.8V	41.4 ~ 48.6V	57.6 ~ 67.2
	OVER VOLIAGE	Protection type : Shut down o/p voltage, re-power on to recover							
		80°C ±5°C (TSW1)detect on heatsink of power transistor							
	OVER TEMPERATURE	90°C ±5°C (TSW2) detect on heatsink of power doide for 3.3V,5V,7.5V ; 100°C ±5°C (TSW2) detect on main power output choke for othe							
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down							
	DC OK SIGNAL	PSU turn on : 3.3 ~ 5.6V ; PSU turn off : 0 ~ 1V							
FUNCTION	FAN CONTROL (Typ.)	Load $35\pm15\%$ or RTH2 \geq 50°C Fan on							
ENVIRONMENT	WORKING TEMP.	-40~+70 (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40~+85 ,10~95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)							
	VIBRATION	10~500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved							
SAFETY &	WITHSTAND VOLTAGE	I/P-0/P:3KVAC I/P-FG:1.5KVAC 0/P-FG:0.5KVAC							
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25 / 70% RH							
EMC (Note 4)	EMC EMISSION								
(EMC IMMUNITY	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3							
		Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, heavy industry level, criteria A							
OTHERS	MTBF	140.6K hrs min. MIL-HDBK-217F (25)							
	DIMENSION	218*105*63.5r	, ,						
	PACKING	1.5Kg;8pcs/13	(g/1.34CUFT						
NOTE	 Ripple & noise are measure Tolerance : includes set up The power supply is consid EMC directives. For guidan (as available on http://www. 	ally mentioned are measured at 230VAC input, rated load and 25 of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. o tolerance, line regulation and load regulation. dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets nce on how to perform these EMC tests, please refer to "EMI testing of component power supplies." meanwell.com) under low input voltages. Please check the derating curve for more details.							



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