

MEAN WELL HRP-600 Series 600W Single Output with PFC Function Power Supply Owner's Manual

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600W Single Output with PFC Function

HRP-600 series



■ GTIN CODE

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■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.93
- 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
- DC OK signalBuilt-in
- Built-in remote sense function
- All using 105 long life electrolytic capacitors°C
- 5 years warranty







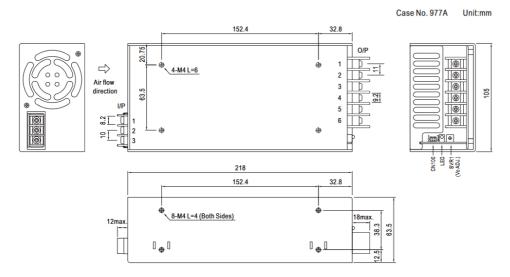


Ⅲ CB (€ 點 BS EN/EN62368-1 TPTC004 IEC62368-1

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
	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	120mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-p
OUTPUT	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%	±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						1 ±0.5 /6	±0.5%	10.0%
	HOLD UP TIME (Typ.)	1800ms, 50ms/230VAC 3600ms, 50ms/115VAC at full load 16ms/230VAC 16ms/115VAC at full load							
	VOLTAGE RANGE Note.5	85 ~ 264VAC 120 ~ 370VDC							
	FREQUENCY RANGE	47~63Hz							
	POWER FACTOR (Typ.)	PF>0.93/230VAC							
INPUT	EFFICIENCY (Typ.)	78.5%	82%	86%	88%	88%	88%	89%	89%
	AC CURRENT (Typ.)	7.6A/115VAC	3.6A/230VA						
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC							
	LEAKAGE CURRENT	<1.2mA/ 240VAC							
	OVERLOAD	105 ~ 135% rated output power							
	OVERLOAD	Protection type: Constant current limiting, recovers automatically after fault condition is removed							
PROTECTION	N	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 VOLTAGE	Protection type	: Shut down o	/p voltage, re-po	wer on to recove	er			
	OVER TEMPERATURE	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±15% or RTH2≥50°C Fan on							
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing							
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)							
	VIBRATION	±0.03% C (0~50 C) 10~500Hz, 5G 10min,/1cycle, 60min, each along X, Y, Z axes							
	SAFETY STANDARDS	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes UL62368-1, TUV BS EN/EN62368-1, AS/NZS62368.1, EAC TP TC 004 approved							
	WITHSTAND VOLTAGE	UL62308-1, TUV BS EN/ENG2308-1, AS/NZS62368.1, EAC TP TC 004 approved I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC							
SAFETY &	ISOLATION RESISTANCE								
EMC (Note 4)	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH							
(Note 4)		Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TPTC 020 Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2, heavy industry level, EAC TPTC 020							
	EMC IMMUNITY	•						try level, EAC TP	TC 020
	MTBF	1333.6K hrs m		SR-332 (Bellco	e); 140.7K hrs	min. MIL-HDE	K-217F (25°C)		
OTHERS	DIMENSION	218*105*63.5	nm (L*W*H)						
	PACKING	1.5Kg;8pcs/13	Kg/1.34CUFT						
NOTE	All parameters NOT special Pipple & noise are measure Tolerance: includes set up The power supply is consid a 360mm*360mm metal pla perform these EMC tests, py (as available on https://dw. Derating may be needed ur The ambient temperature d Product Liability Disclaimer	ad at 20MHz of tolerance, line rered a componente with 1mm of lease refer to "Exmeanwell.com, ander low input werating of 3.5°C,	bandwidth by u egulation and lo ent which will bo thickness. The EMI testing of co //Upload/PDF/E oltages. Please 11000m with far	sing a 12" twister bad regulation. e installed into a final equipment r omponent power MI_statement_er check the deratin less models and	d pair-wire termi final equipment. nust be re-confii supplies." updf) ng curve for moi of 5°C/1000m v	All the EMC tes rmed that it still r re details. with fan models	uf & 47uf paralle Is are been executed by the second control Is are been executed by the second control Is a se	cuted by mounti ctives. For guida	nce on how to

Mechanical Specification



AC Input Terminal Pin No. Assignment

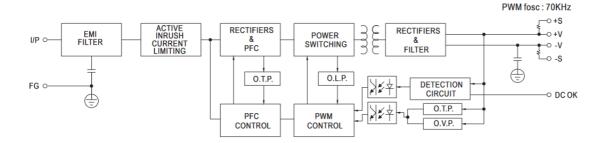
Assignment			
Pin No.	Assignment		
1	AC/L		
2	AC/N		
3	FG ÷		

DC Output Terminal Pin No. Assignment

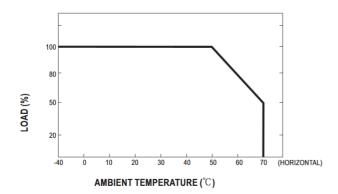
Pin No. Assignment
1~3 -V
4~6 +V

Commedia	31 1 III 140. A33	ingililionit(Olvio	o). Till o bi Ti-	FDI -ZDO OI CQU
Pin No.	Assignment	Mating Housing	Terminal	
1	DC-OK			
2	GND		HRS DF11-**SC	
•		or oquivalent	or oquivalant	

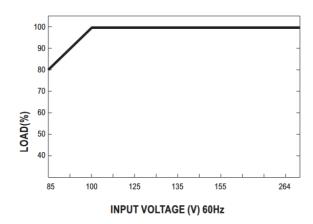
Block Diagram



Derating Curve



Output Derating VS Input Voltage



Documents / Resources



MEAN WELL HRP-600 Series 600W Single Output with PFC Function Power Supply [pdf]

Owner's Manual

HRP-600 Series 600W Single Output with PFC Function Power Supply, HRP-600 Series, 600W Single Output with PFC Function Power Supply, Single Output with PFC Function Power Supply, Output with PFC Function Power Supply, PFC Function Power Supply, Function Power Supply, Power Supply, Supply

References

- ▲ TÜV Rheinland Home | US | TÜV Rheinland
- User Manual

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