

300W Single Output with PFC Function

HRP-300 series



■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- 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
- 1U low profile 41mm
- Built-in cooling fan ON-OFF control
- Built-in DC OK signal
- * Built-in remote sense function
- 5 years warranty



■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx



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	HRP-300-3.3	HRP-300-5	HRP-300-7.5	HRP-300-12	HRP-300-15	HRP-300-24	HRP-300-36	HRP-300-48		
DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V		
RATED CURRENT	60A	60A	40A	27A	22A	14A	9A	7A		
CURRENT RANGE	0 ~ 60A	0 ~ 60A	0 ~ 40A	0 ~ 27A	0 ~ 22A	0 ~ 14A	0 ~ 9A	0 ~ 7A		
RATED POWER	198W	300W	300W	324W	330W	336W	324W	336W		
RIPPLE & NOISE (max.) Note.2	80mVp-p	90mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-p	250mVp-p	250mVp-p		
	- ' '	- ' '				- ' '		40.8 ~ 55.2\		
								±1.0%		
	±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%		
SETUP. RISE TIME	1000ms, 50ms	/230VAC 2	500ms, 50ms/1	15VAC at full loa	d					
,	<u> </u>									
() ()					88%	87%	88%	89%		
				0070	0070	0170	0070	0070		
, ,,										
LEARAGE CURRENT										
OVERLOAD										
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OVER VOLTAGE						30 ~ 34.6V	41.4 ~ 40.0V	57.6 ~ 67.2		
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	±0.03%/°C (0~50°C)									
VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes									
SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004, AS/NZS 62368.1 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 BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020									
EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11,BS EN/EN55024,BS EN/EN61000-6-2,heavy industry level,EAC TP TC 020									
MTBF	1487.1K hrs min. Telcordia SR-332 (Bellcore) ; 200.4K hrs min. MIL-HDBK-217F (25°C)									
DIMENSION										
PACKING			Т							
All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C 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. All the EMC tests are been executed by mounting the unit or a 360mm*360mm metal plate with 1mm of thickness. 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. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500 Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx										
	RATED CURRENT CURRENT RANGE RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVERLOAD OVER VOLTAGE OVER TEMPERATURE DC OK SIGNAL FAN CONTROL (Typ.) WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specia 2. Ripple & noise are measure 3. Tolerance: includes set up 4. The power supply is conside a 360mm*360mm metal pla performt meas EMC tests, p 5. Derating may be needed u 6. The ambient temperature d	RATED CURRENT 60A CURRENT RANGE 0 ~ 60A RATED POWER 198W RIPPLE & NOISE (max.) Note.2 80mVp-p VOLTAGE ADJ. RANGE 2.8 ~ 3.8V VOLTAGE TOLERANCE Note.3 ±2.5% LINE REGULATION ±0.5% LOAD REGULATION ±1.0% SETUP, RISE TIME 1000ms, 50ms, HOLD UP TIME (Typ.) 16ms/230VAC VOLTAGE RANGE Note.5 85 ~ 264VAC FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) PF>0.95/230V/ EFFICIENCY (Typ.) 80% AC CURRENT (Typ.) 3.5A/115VAC INRUSH CURRENT (Typ.) 3.5A/115VAC LEAKAGE CURRENT 105 ~ 135% rat Protection type OVER VOLTAGE 700	DC VOLTAGE 3.3V 5V	DC VOLTAGE	DC VOLTAGE 3.3V 5V 7.5V 12V	DC VOLTAGE	DC VOLTAGE	DC VOLTAGE		

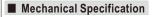
File Name:HRP-300-SPEC 2022-02-28

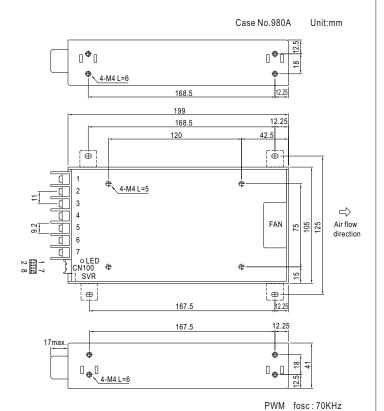




300W Single Output with PFC Function

HRP-300 series





Terminal Pin No. Assignment

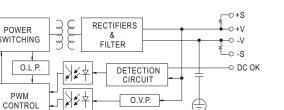
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4,5	DC OUTPUT -V
2	AC/N	6,7	DC OUTPUT +V
3	FG ≟		

Connector Pin No. Assignment (CN100): HRS DF11-08DP-2DS or equivalent

EMI FILTER

> ACTIVE INRUSH CURRENT LIMITING

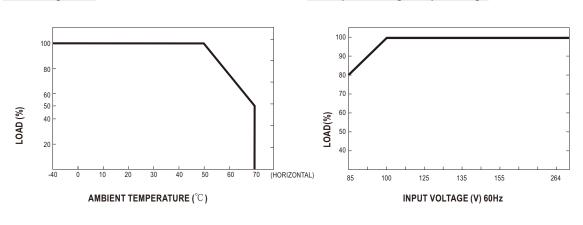
■ Block Diagram



■ Derating Curve

FG O

■ Output Derating VS Input Voltage



RECTIFIERS

PFC

PFC CONTROL

O.T.P.

File Name:HRP-300-SPEC 2022-02-28





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