



150W Single Output with PFC Function

HRPG-150 series



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

■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 88%
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- * Built-in constant current limiting circuit
- 1U low profile 38mm
- * Built-in remote ON-OFF control
- Stand by 5V@0.3A
- Built-in remote sense function
- No load power consumption<0.5W (Note.6)
- 5 years warranty



SPECIFICATION

■ GTIN CODE

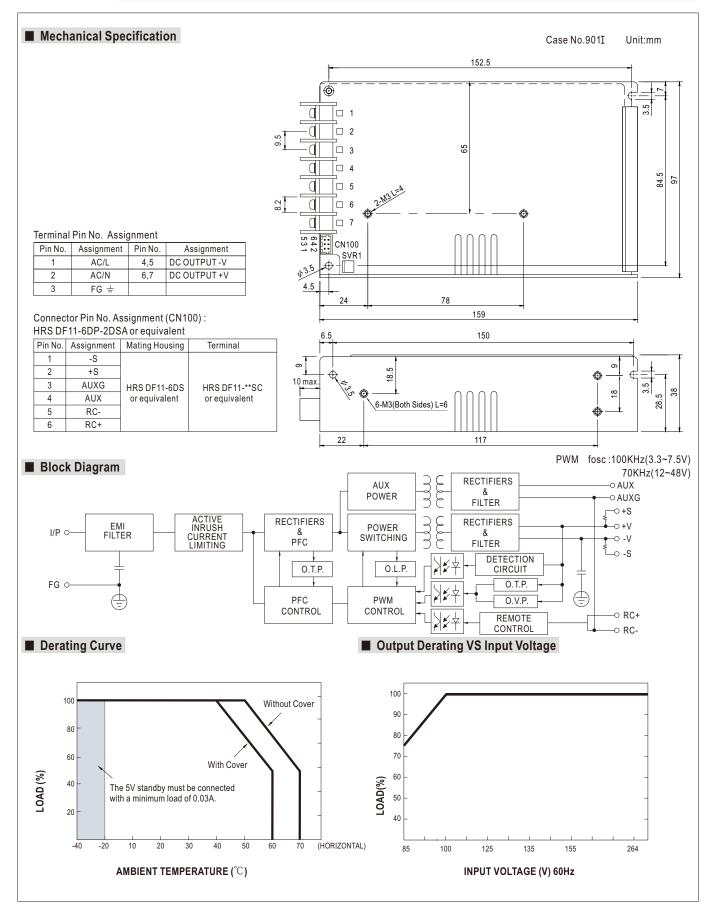
CHUS LINE EN/EN62368-1 TPTC004 IEC62368-1

MODEL		HRPG-150-3.3	HRPG-150-5	HRPG-150-7.5	HRPG-150-12	HRPG-150-15	HRPG-150-24	HRPG-150-36	HRPG-150-48		
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V		
OUTPUT	RATED CURRENT	30A	26A	20A	13A	10A	6.5A	4.3A	3.3A		
	CURRENT RANGE	0 ~ 30A	0 ~ 26A	0 ~ 20A	0 ~ 13A	0 ~ 10A	0 ~ 6.5A	0 ~ 4.3A	0 ~ 3.3A		
	RATED POWER	99W	130W	150W	156W	150W	156W	154.8W	158.4W		
	RIPPLE & NOISE (max.) Note.2		80mVp-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		±2.5%	±2.5%	±1.5%	±1.5%	±1.5%	±1.5%	±1.5%		
	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	3000ms, 50ms/230VAC 3000ms, 50ms/115VAC at full load									
	HOLD UP TIME (Typ.)	16ms/230VAC									
		85 ~ 264VAC 120 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz PF>0.95/230V/	NO DE-0.0	10/11 EVA C =4 EVI	la a d						
	POWER FACTOR (Typ.)			9/115VAC at full		070/	0.70/	000/	000/		
	EFFICIENCY (Typ.)	78.5%	84%	86%	87%	87%	87%	88%	88%		
	AC CURRENT (Typ.)	1.7A/115VAC 0.9A/230VAC									
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC									
	LEAKAGE CURRENT	<1mA/240VAC									
PROTECTION	OVERLOAD		ed output powe								
				rent limiting, reco							
	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 ~ 67.2V		
		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	5V STANDBY	5VSB: 5V@0.3A; tolerance±5%, ripple: 50mVp-p(max.)									
	REMOTE CONTROL		RC+ / RC-: $4 \sim 10V$ or open = power on ; $0 \sim 0.8V$ or short = power off								
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY										
	TEMP. COEFFICIENT	$\pm 0.04\%$ /°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 approved									
SAFETY & WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2				AC 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	BS EN/EN5503	2 (CISPR32) Cla	iss B, BS EN/EN	I61000-3-2,-3, E	AC TP TC 020				
	EMC IMMUNITY	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 TP TC 020									
OTHERS	MTBF	1544.0K hrs mir	n. Telcordia S	R-332 (Bellcore)	; 213.4K hrs min	. MIL-HDBK-2	217F (25°C)				
	DIMENSION	159*97*38mm (L*W*H)									
	PACKING	0.63Kg; 24pcs/	,								
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p Derating may be needed ur No load power consumption Strongly recommended t The ambient temperature d	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Led at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Let tolerance, line regulation and load regulation. Let deed a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on attement thinkness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to olease refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) ander low input voltages. Please check the derating curve for more details. Let all the test of t									



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HRPG-150 series





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■ Function Description of CN100

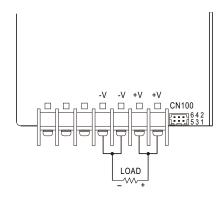
Pin No.	Function	Description
1		Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.5V.
2		Positive sensing. The +S signal should be connected to the positive terminal of the load. The +S and -S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.5V.
3	AUXG	Auxiliary voltage output ground. The signal return is isolated from the output terminals (+V & -V).
4	AUX	Auxiliary voltage output, 4.75~5.25V, referenced to pin 3(AUXG). The maximum load current is 0.3A. This output is not controlled by the "remote ON/OFF control".
5	RC-	Remote control ground.
6	RC+	Turns the output on and off by electrical or dry contact between pin 5 (RC-). Short: Power OFF, Open: Power ON.

■ Function Manual

1.Remote Control

The PSU can be turned ON/OFF by using the "Remote ON/OFF" function

Between RC-(pin5) and RC+(pin6)	Output Status			
SW ON (Short)	OFF			
SW OFF (Open)	ON			



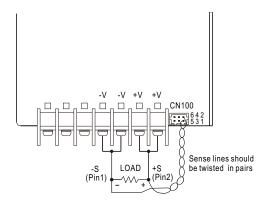
CN100

6 RC+ AUX +S 2
5 RC- AUXG -S 1

Fig 1.1

2.Remote Sense

The remote sensing compensates voltage drop on the load wiring up to $0.5 \, \text{V}.$



CN100

6 RC+ AUX +S 2

5 RC- AUXG -S 1

Fig 2.1