

200W Single Output with PFC Function

HRPG-200 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
- Cooling by free air convection
- Built-in constant current limiting circuit
- 1U low profile 38mm
- Built-in remote ON-OFF control
- Standby 5V@0.3A
- Built-in remote sense function
- No load power consumption<0.5W (Note.6)
- 5 years warranty

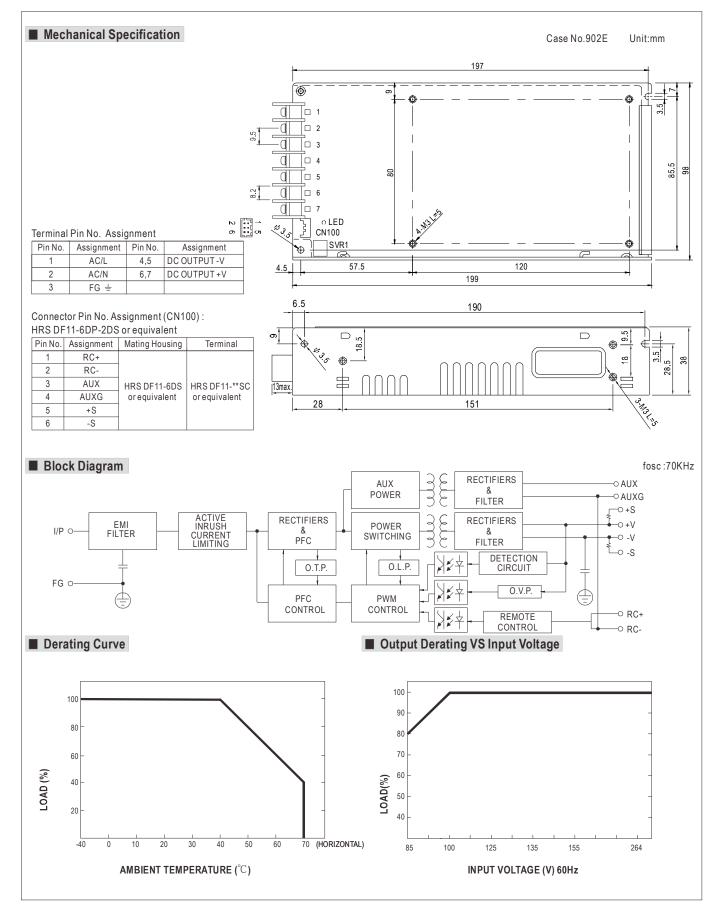


SPECIFICATION

MODEL		HRPG-200-3.3	HRPG-200-5	HRPG-200-7.5	HRPG-200-12	HRPG-200-15	HRPG-200-24	HRPG-200-36	HRPG-200-48		
OUTPUT	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V		
	RATED CURRENT	40A	35A	26.7A	16.7A	13.4A	8.4A	5.7A	4.3A		
	CURRENT RANGE	0~40A	0~35A	0~26.7A	0~16.7A	0~13.4A	0~8.4A	0~5.7A	0~4.3A		
	RATED POWER	132W	175W	200.3W	200.4W	201W	201.6W	205.2W	206.4W		
	RIPPLE & NOISE (max.) Note.2	80mVp-p	90mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-p	250mVp-p	250mVp-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%	±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	±1.5%	±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									
INPUT	VOLTAGE RANGE Note.5	85~264VAC 120~370VDC									
	FREQUENCY RANGE	47~63Hz									
	POWER FACTOR (Typ.)	PF>0.95/230V/	AC PF>0.9	9/115VAC at full	load						
	EFFICIENCY (Typ.)	80%	84%	86%	88%	88%	88%	89%	89%		
	AC CURRENT (Typ.)	2.1A/115VAC	1.1A/230VA	5			L	1			
	INRUSH CURRENT (Typ.)	35A/115VAC	70A/230VA0)							
	LEAKAGE CURRENT	<1.2mA/240VAC									
	OVERLOAD	105 ~ 135% rated output power									
				ent limiting, reco	overs automatic	ally after fault co	ondition is remov	ved			
PROTECTION		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/g	voltage, re-pov	ver on to recove	r	1				
	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 ~10V or open = power on ; 0 ~ 0.8V or short = power off									
ENVIRONMENT	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY										
	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										
EMC	ISOLATION RESISTANCE										
(Note 4)	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3									
. ,	EMCIMMUNITY	Compliance to EN61000-4-2.3.4.5.6.8.11, EN55024, heavy industry level, criteria A									
OTHERS	MTBF	189.1K hrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	199*98*38mm (L*W*H)									
OTHERS	DIMENSION		· /								
OTHERS	PACKING	0.77Kg; 18pcs/	14.9Kg/0.9CUFT	0.77Kg; 18pcs/14.9Kg/0.9CUFT illy mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. iered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets ice on how to perform these EMC tests, please refer to EMI testing of component power supplies. :meanwell.com) nder low input voltages. Please check the derating curve for more details. n=0.5W when RC+ & RC- (CN100 pin1,2) 0 ~ 0.8V or short.							



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Function Description of CN100

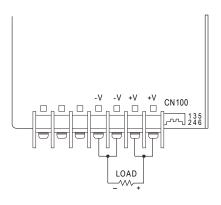
Pin No.	Function	Description
1	RC+	Turns the output on and off by electrical or dry contact between pin 2 (RC-). Short: Power OFF, Open: Power ON.
2	RC-	Remote control ground.
3		Auxiliary voltage output, 4.75~5.25V, reference to pin 4(AUXG). The maximum load current is 0.3A. This output is not controlled by the "remote ON/OFF control".
4	AUXG	Auxiliary voltage output ground. The signal return is isolated from the output terminals (+V & -V).
5	+S	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.
6		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.

Function Manual

1.Remote Control

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

Between RC-(pin2) and RC+(pin1)	Output Status		
SW ON (Short)	OFF		
SW OFF (Open)	ON		



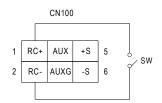


Fig 1.1

2.Remote Sense

The remote sensing compensates voltage drop on the load wiring up to 0.5V.

