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200W Single Output with PFC Function





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 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



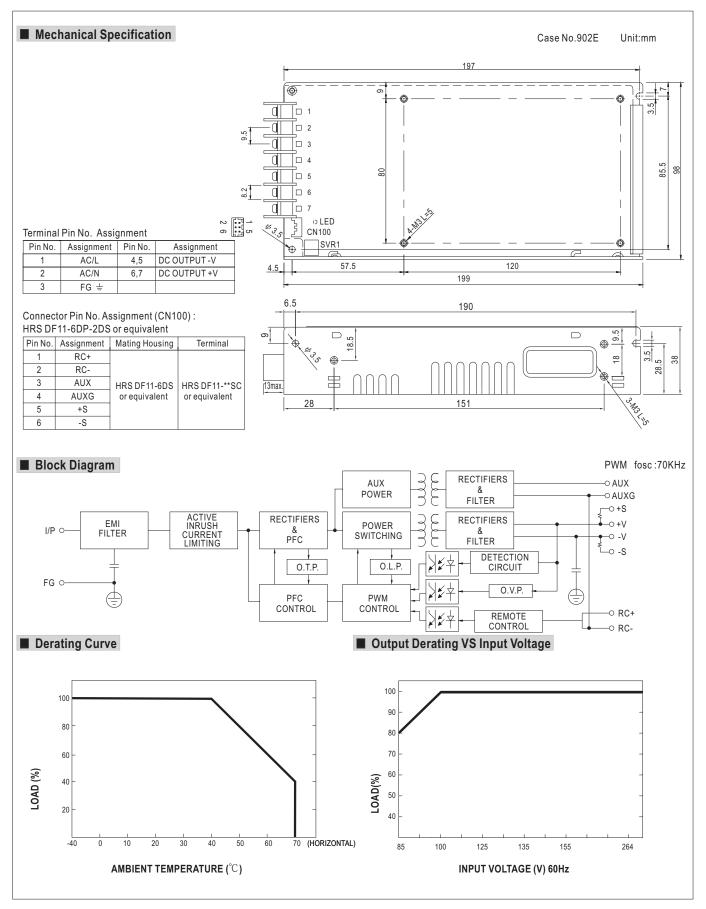
SPECIFICATION

■ GTIN CODE

R CBCEK

MODEL	ATION	HRPG-200-3.3	HRPG-200-5	HRPG-200-7.5	HRPG-200-12	OL02300-1	HRPG-200-24	HRPG-200-36	8-1 HRPG-200-48		
MODEL	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V		
ОИТРИТ	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	0.4A 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	-				-					
	VOLTAGE ADJ. RANGE		90mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-p	250mVp-p	250mVp-p		
	VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3	2.8 ~ 3.8V ±2.0%	4.3 ~ 5.8V ±2.0%	6.8 ~ 9V ±2.0%	10.2 ~ 13.8V ±1.0%	13.5 ~ 18V ±1.0%	21.6 ~ 28.8V ±1.0%	28.8 ~ 39.6V ±1.0%	40.8 ~ 55.2V ±1.0%		
				±0.5%							
	LINE REGULATION	±0.5% ±1.5%	±0.5% ±1.0%	±0.5% ±1.0%	±0.3% ±0.5%	±0.3% ±0.5%	±0.2% ±0.5%	±0.2% ±0.5%	±0.2% ±0.5%		
	LOAD REGULATION						⊥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									
	VOLTAGE RANGE Note.5										
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.) PF>0.95/230VAC PF>0.99/115VAC at full load					200/	000/	000/			
INPUT	EFFICIENCY (Typ.)	80%	84%	86%	88%	88%	88%	89%	89%		
	AC CURRENT (Typ.)	2.1A/115VAC 1.1A/230VAC									
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC									
	LEAKAGE CURRENT	<1.2mA / 240VAC									
	OVERLOAD	105 ~ 135% rat									
				ent limiting, rec		T .	I				
PROTECTION	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 VOLINGE	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.)									
TONCTION	REMOTE CONTROL	RC+/RC-: 4~10V or open = power on; 0~0.8V or short = power off									
	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									
	TEMP. COEFFICIENT	±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 approved									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC									
EMC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500V						1					
(Note 4)	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, heavy industry level, EAC TP TC 020									
OTHERS	MTBF	1612.1K hrs min. Telcordia SR-332 (Bellcore) ; 189.1K hrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	199*98*38mm (L*W*H)									
	PACKING	0.77Kg; 18pcs/	,	T							
NOTE	All parameters NOT specia Ripple & noise are measure Tolerance: includes set up The power supply is consided a 360mm*360mm metal playerform these EMC tests, positions and power consumption. No load power consumption. The ambient temperature definitions.	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. to tolerance, line regulation and load regulation. dered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on atte with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) in<0.5W when RC+ & RC- (CN100 pin1,2) 0 ~ 0.8V or short. derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft) r: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx									





■ Function Description of CN100

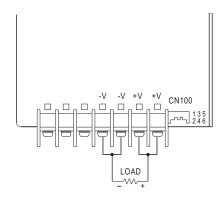
Pin No.	Function	Description
1	RC+	Turns the output on and off by electrical or dry contact between pin 2 (RC-). Short: Power OFF, Open: Power ON.
2	RC-	Remote control ground.
3	AUX	Auxiliary voltage output, 4.75~5.25V, reference to pin 4(AUXG). The maximum load current is 0.3A. This output is not controlled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



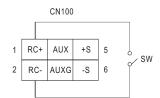


Fig 1.1

2.Remote Sense

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

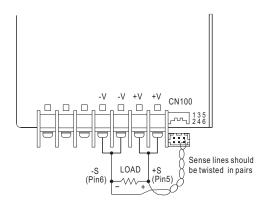




Fig 2.1