



#### 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

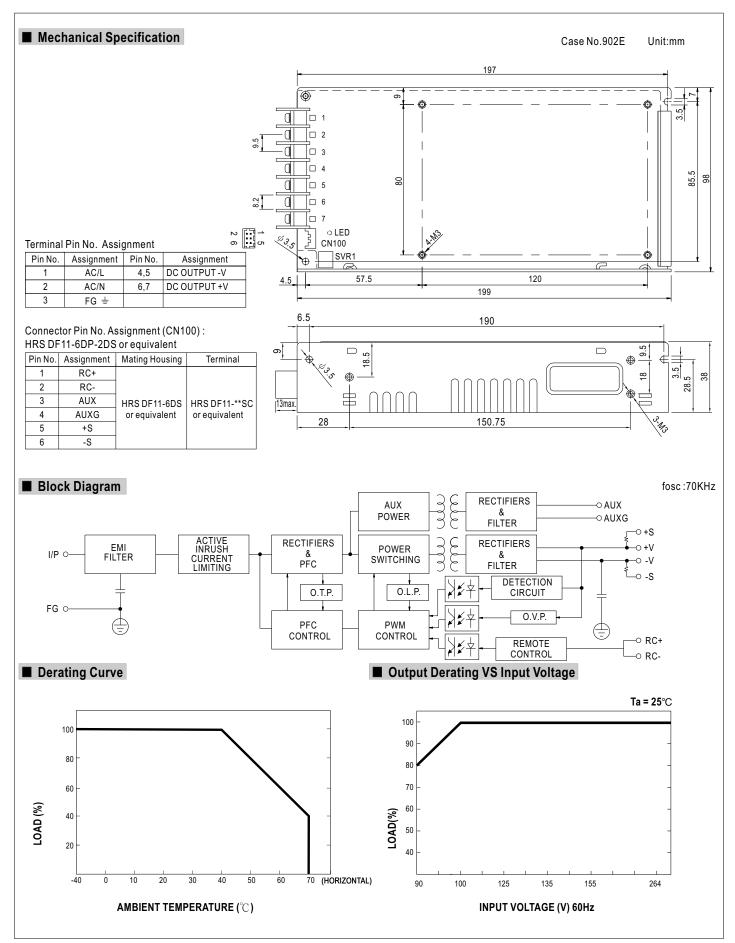


#### **SPECIFICATION** MODEL HRPG-200-3.3 HRPG-200-5 HRPG-200-7.5 HRPG-200-12 HRPG-200-15 HRPG-200-24 HRPG-200-36 HRPG-200-48 DC VOLTAGE 7.5V 15V 24V 48V 3.3V 5V 12V 36V RATED CURRENT 26.7A 16.7A 5.7A 4.3A 40A 35A 13.4A 8.4A 0 ~ 5.7A CURRENT RANGE 0 ~ 40A 0 ~ 35A 0~26.7A 0 ~ 16.7A 0 ~ 13.4A 0~84A 0~43A RATED POWER 200.4W 132W 175W 200 3W 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 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 ±1.5% ±1.0% ±1.0% ±0.5% +0.5% ±0.5% ±0.5% ±0.5% 1000ms, 50ms/230VAC 2500ms, 50ms/115VAC at full load SETUP, RISE TIME HOLD UP TIME (Typ.) 16ms/230VAC 16ms/115VAC at full load **VOLTAGE RANGE** 85 ~ 264VAC 120 ~ 370VDC FREQUENCY RANGE 47 ~ 63Hz PF>0.95/230VAC POWER FACTOR (Typ.) PF>0.99/115VAC at full load INPUT **EFFICIENCY (Typ.)** 80% 84% 86% 88% 88% 88% 89% 89% AC CURRENT (Typ.) 1.1A/230VAC 2.2A/115VAC INRUSH CURRENT (Typ.) 35A/115VAC 70A/230VAC LEAKAGE CURRENT <1.2mA/240VAC 105 ~ 135% rated output power OVERLOAD Protection type: Constant current limiting, recovers automatically after fault condition is removed 6 ~ 7V 9.4 ~ 10.9V 41.4 ~ 48.6V OVER VOLTAGE PROTECTION Protection type: Shut down o/p voltage, re-power on to recover 95°C ±5°C (TSW1) detect on heatsink of power transistor **OVER TEMPERATURE** 105°C ±5°C (TSW2) detect on main power output choke Protection type: Shut down o/p voltage, recovers automatically after temperature goes down **5V STANDBY** 5VSB: 5V@0.3A; tolerance ± 5%, ripple: 50mVp-p(max.) **FUNCTION** RC+/RC-: 4~10V or open = power on; 0~0.8V or short = power off REMOTE CONTROL -40 ~ +70°C (Refer to output load derating curve) WORKING TEMP. 20 ~ 90% RH non-condensing WORKING HUMIDITY **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 UL60950-1, TUV EN60950-1 approved SAFETY STANDARDS WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC **SAFETY & ISOLATION RESISTANCE** I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH **EMC EMI CONDUCTION & RADIATION** Compliance to EN55022 (CISPR22) Class B (Note 4) HARMONIC CURRENT Compliance to EN61000-3-2,-3 **EMS IMMUNITY** Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, heavy industry level, criteria A MTBF 189.1K hrs min. MIL-HDBK-217F (25°C) OTHERS **DIMENSION** 199\*98\*38mm (L\*W\*H) **PACKING** 0.77Kg; 18pcs/14.9Kg/0.81CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. NOTE 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. 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. No load power consumption<0.5W when RC+ & RC- (CN100 pin1,2) 0 ~ 8V or short.







# **■** Function Description of CN100

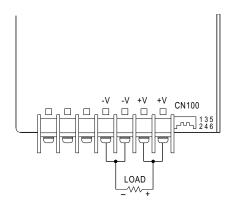
Pin No.	Function	Description		
1	RC+	Turns the output on and off by electrical or dry contact between pin 2 (RC-). Short: Power OFF, Open: Power ON.		
2	RC-	Remote control ground.		
3		Auxiliary voltage output, 4.75~5.25V, reference to pin 4(AUXG). The maximum load current is 0.3A. This output has the built-in oring diodes and 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	-S	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



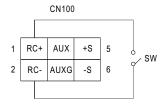
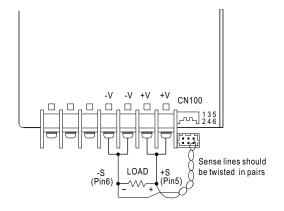


Fig 1.1

#### 2.Remote Sense

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



	CN100							
1	RC+	AUX	+S	5				
2	RC-	AUXG	-S	6				

Fig 2.1