



Features:

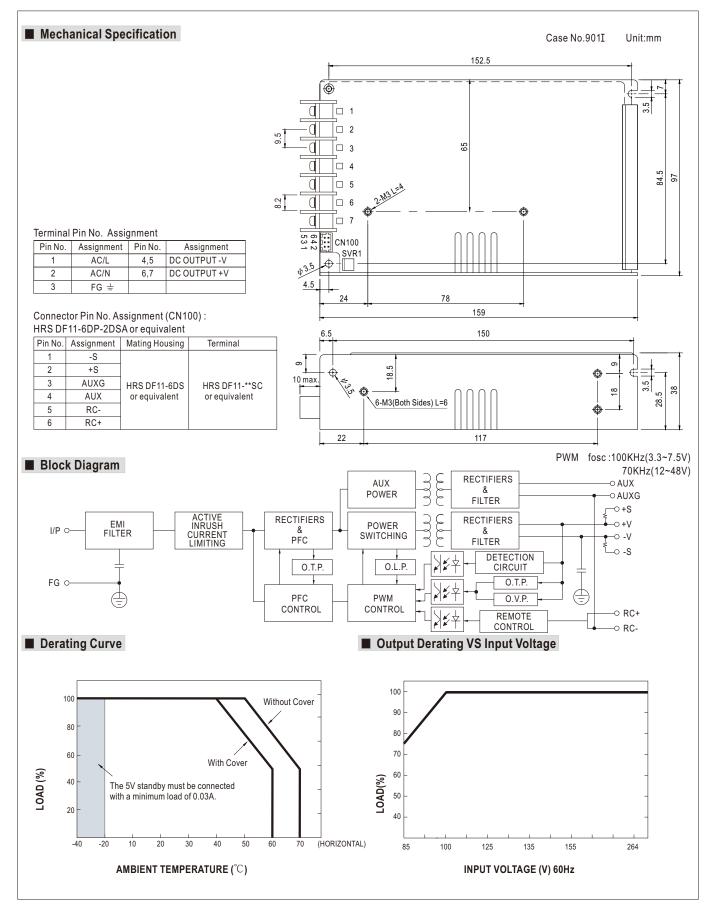
- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 88%
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- · Built-in constant current limiting circuit
- 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 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 24V 48V 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 80mVp-p 100mVp-p 120mVp-p 150mVp-p 150mVp-p 200mVp-p 240mVp-p **OUTPUT VOLTAGE ADJ. RANGE** 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 28~38V VOLTAGE TOLERANCE Note.3 $\pm 2.5\%$ ±2.5% ±2.5% ±1.5% ±1.5% ±1.5% ±1.5% ±1.5% LINE REGULATION $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.3\%$ $\pm 0.3\%$ $\pm 0.2\%$ $\pm 0.2\%$ +0.2% LOAD REGULATION $\pm 1.0\%$ ±1.0% ±1.0% $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ 3000ms, 50ms/230VAC 3000ms, 50ms/115VAC at full load SETUP. RISE TIME 16ms/115VAC at full load HOLD UP TIME (Typ.) 16ms/230VAC **VOLTAGE RANGE** 120 ~ 370VDC Note.5 85 ~ 264VAC **FREQUENCY RANGE** 47 ~ 63Hz POWER FACTOR (Typ.) PF>0 95/230VAC PF>0.99/115VAC at full load 84% 86% INPUT **EFFICIENCY (Typ.)** 87% 87% 88% 88% 78.5% AC CURRENT (Typ.) 1.7A/115VAC 0.9A/230VAC INRUSH CURRENT (Typ.) 35A/115VAC 70A/230VAC LEAKAGE CURRENT <1mA / 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 14.4 ~ 16.8V 18.8 ~ 21.8V 30 ~ 34.8V 41.4 ~ 48.6V 57.6 ~ 67.2V **PROTECTION** OVER VOLTAGE 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 5VSB:5V@0.3A; tolerance ±5%, ripple:50mVp-p(max.) **5V STANDBY FUNCTION** RC+ / RC-: 4 ~ 10V or open = power on; 0 ~ 0.8V or short = power off REMOTE CONTROL -40 ~ +70°C (Refer to "Derating Curve") WORKING TEMP. 20 ~ 90% RH non-condensing **WORKING HUMIDITY** -40 ~ +85°C. 10 ~ 95% RH **ENVIRONMENT** STORAGE TEMP.. HUMIDITY ±0.04%/°C (0~50°C) TEMP. COEFFICIENT 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes **VIBRATION** UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved SAFFTY STANDARDS WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC **SAFETY &** I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH ISOLATION RESISTANCE **EMC** (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, BS EN/EN61000-6-2, heavy industry level, EAC TP TC 020 **MTBF** 1544.0K hrs min. Telcordia SR-332 (Bellcore); 213.4K hrs min. MIL-HDBK-217F (25°C) **OTHERS DIMENSION** 159*97*38mm (L*W*H) **PACKING** 0.63Kg; 24pcs/16Kg/0.9CUFT 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. All the EMC tests are been executed by mounting the unit on

- 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 on 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. No load power consumption<0.5W when RC- & RC+ (CN100 pin5,6) 0 ~ 0.8V or short.
- 7. Strongly recommended that external output capacitance should not exceed 5000uF. (Only for: HRPG-150-3.3/-5/-7.5/-12/-15)
- 8. 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(6500ft).
- ** Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx







■ Function Description of CN100

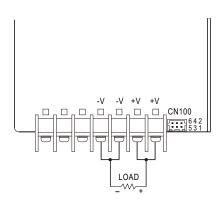
Pin No.	Function	Description	
1		Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.5V.	
2		Positive sensing. The +S signal should be connected 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



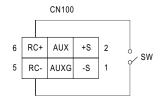
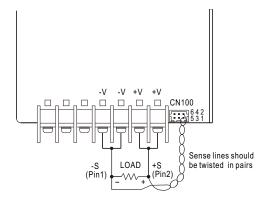


Fig 1.1

2.Remote Sense

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



CN100

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

Fig 2.1