

SPECIFICATION



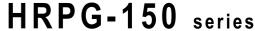
■ Features :

- · 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

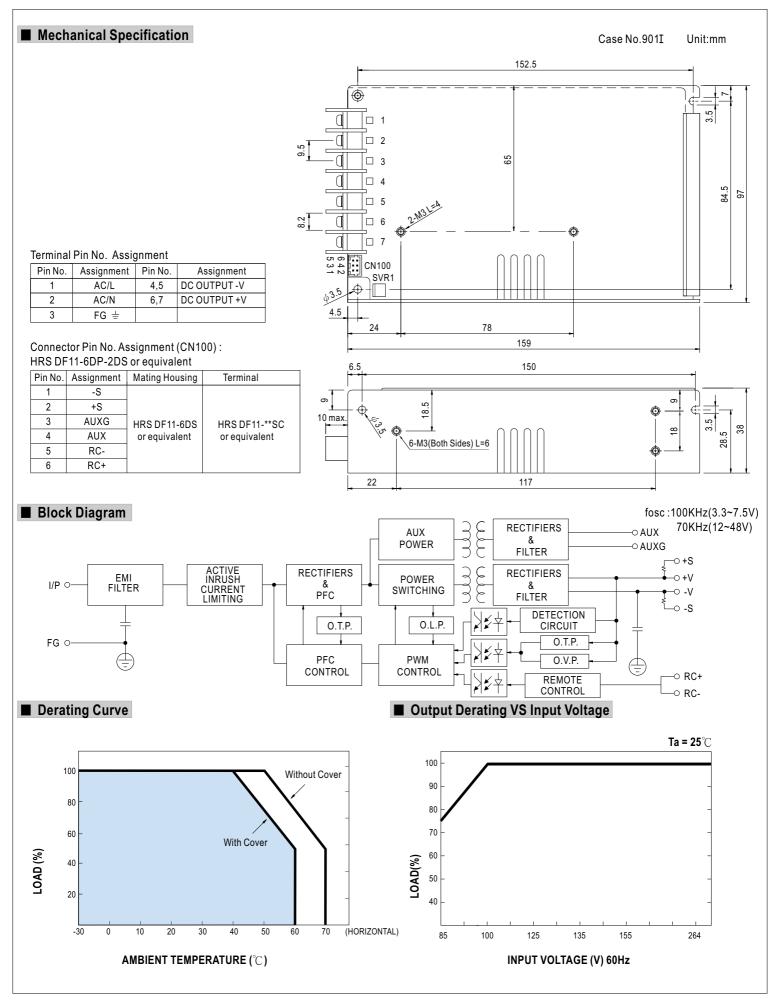


MODEL HRPG-150-3.3 HRPG-150-5 HRPG-150-7.5 HRPG-150-12 HRPG-150-15 | HRPG-150-24 | HRPG-150-36 | HRPG-150-48 DC VOLTAGE 3.3V 5V 7.5V 12V 15V 24V 36V 48V RATED CURRENT 30A 26A 20A 13A 10A 6.5A 4.3A 3.3A **CURRENT RANGE** 0~30A 0 ~ 26A 0 ~ 20A 0 ~ 13A 0 ~ 10A 0 ~ 6.5A 0 ~ 4.3A 0 ~ 3.3A RATED POWER 99W 130W 150W 156W 150W 156W 154.8W 158.4W RIPPLE & NOISE (max.) Note.2 120mVp-p 240mVp-p 80mVp-p 80mVp-p 100mVp-p 150mVp-p 150mVp-p 200mVp-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** +2.5% ±2.5% +2.5% ±1.5% ±1.5% ±1.5% ±1.5% ±1.5% LINE REGULATION $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ +0.3% $\pm 0.3\%$ +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 16ms/115VAC at full load **VOLTAGE RANGE** Note.5 85 ~ 264VAC 120 ~ 370VDC FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) PF>0.95/230VAC PF>0.99/115VAC at full load INPUT 87% 87% 88% 88% **EFFICIENCY (Typ.)** 78.5% 86% AC CURRENT (Typ.) 2.3A/115VAC 1.3A/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 OVER VOLTAGE PROTECTION Protection type: Shut down o/p voltage, re-power on to recover 95° C(3.3V ~ 7.5V), 85° C(12V ~ 48V) (TSW1 : detect on heatsink Q1 of power transistor) **OVER TEMPERATURE** 105° C (3.3V ~ 7.5V), 100° C (12V ~ 48V) (TSW2: detect on heatsink HS4 of power transistor) Protection type: Shut down o/p voltage, recovers automatically after temperature goes down **5V STANDBY** 5VSB: 5V@0.3A; tolerance $\pm 5\%$, ripple: 50mVp-p(max.)**FUNCTION** RC+ / RC-: $4 \sim 10V$ or open = power on ; $0 \sim 0.8V$ or short = power off REMOTE CONTROL **WORKING TEMP** -30 ~ +70°C (Refer to output load derating curve) 20 ~ 90% RH non-condensing **WORKING HUMIDITY ENVIRONMENT** STORAGE TEMP., HUMIDITY -40 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.04%/°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 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, EN61000-6-2, heavy industry level, criteria A **MTBF** 213.4K hrs min. MIL-HDBK-217F (25°C) **OTHERS** DIMENSION 159*97*38mm (L*W*H) **PACKING** 0.63Kg; 24pcs/16Kg/0.76CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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.
- 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 ~ 8V or short.









■ Function Description of CN100

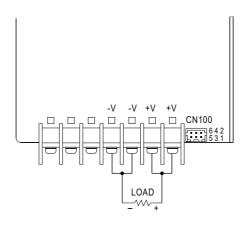
Pin No.	Function	Description
1	1 6	Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.5V.
2		Positive sensing. The +S signal should be connected 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, 4.6~5.25V, referenced to pin 3(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".
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



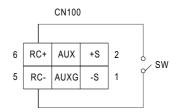


Fig 1.1

2.Remote Sense

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

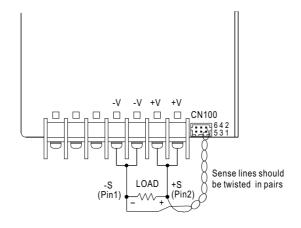




Fig 2.1