



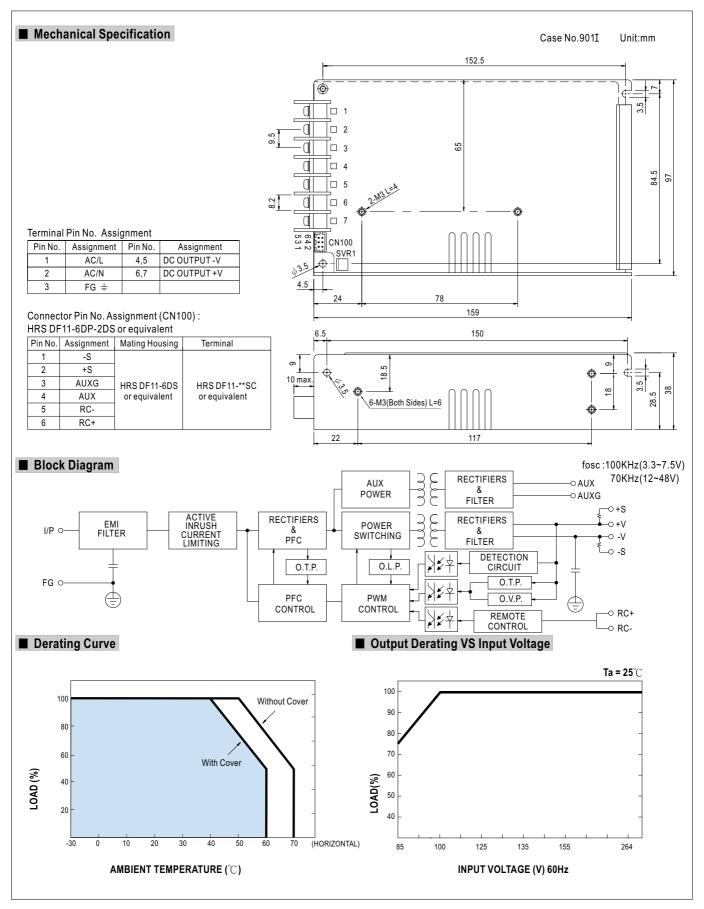
## Features:

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 88% (typ.)
- 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
- 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		
ОИТРИТ	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		
	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%	±1.5%	±1.5%	±1.5%	±1.5%	±1.5%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.3%	±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									
INPUT	1 2 1 7	85 ~ 264VAC 120 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.99/115VAC at full load									
	EFFICIENCY (Typ.)	78.5%	84%	86%	87%	87%	87%	88%	88%		
• .	AC CURRENT (Typ.)	2.3A/115VAC	1.3A/230VA		01 70	0170	01 70	1 00 /0	0070		
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC 1.3A/230VAC									
	LEAKAGE CURRENT										
	LEARAGE CORRECT	<1mA/240VAC									
	OVERLOAD	105 ~ 135% rated output power									
	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\		
PROTECTION							30 34.01	71.7 70.00	01.0 01.21		
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)									
	OVED TEMPEDATURE										
	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 ± 5%, ripple : 50mVp-p(max.)									
FUNCTION	REMOTE CONTROL										
	WORKING TEMP.	RC+ / RC-: 4 ~ 10V or open = power on; 0 ~ 0.8V or short = power off									
ENVIRONMENT		-30 ~ +70°C (Refer to output load derating curve)  20 ~ 90% RH non-condensing									
	WORKING HUMIDITY										
ENVIRONMENT	STORAGE TEMP., HUMIDITY 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									
SAFETY &	WITHSTAND VOLTAGE	/P-O/P:3KVAC									
EMC	ISOLATION RESISTANCE				7/25 C/70% RF	1					
(Note 4)	EMI CONDUCTION & RADIATION	Compliance to	` `	· · · · · · · · · · · · · · · · · · ·							
	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									
NOTE	Ripple & noise are measure     Tolerance : includes set up     The power supply is consided EMC directives.	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.  lered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets  nder low input voltages. Please check the derating curve for more details.									







# ■ Function Description of CN100

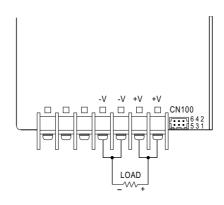
Pin No.	Function	Description
1		Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.5V.
2		Positive sensing. The +S signal should be connected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



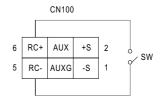
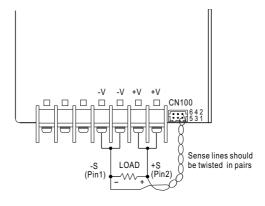


Fig 1.1

### 2.Remote Sense

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



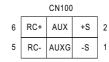


Fig 2.1