

SPECIFICATION

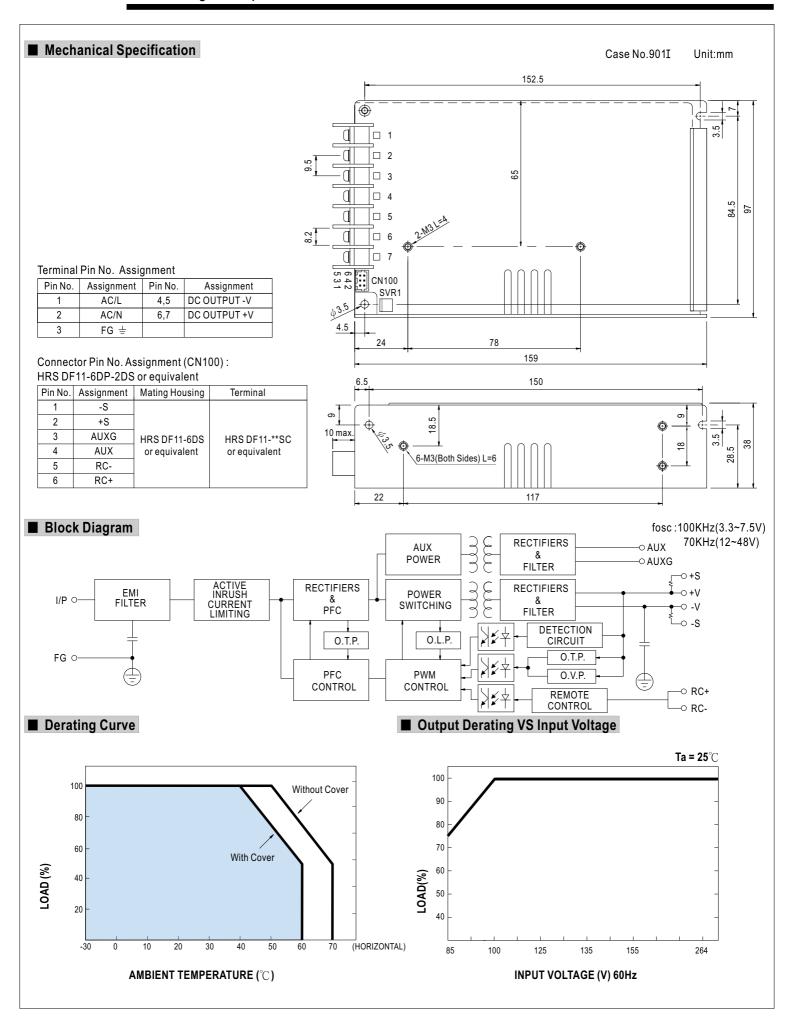
Features:

- 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
- 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-150-4			
OUTPUT	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	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 ~ 55.2\			
	VOLTAGE TOLERANCE Note.3	±2.5%	±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	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										
	EFFICIENCY (Typ.)	78.5%	84%	86%	87%	87%	87%	88%	88%			
	AC CURRENT (Typ.)	2.3A/115VAC	1.3A/230VA	C								
	INRUSH CURRENT (Typ.)	35A/115VAC										
	LEAKAGE CURRENT	<1mA/240VAC	<1mA/240VAC									
	OVERLOAD	105 ~ 135% rated output power										
PROTECTION		7.		ent limiting, reco					1			
	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			
	072K 702I/K02	Protection type: Shut down o/p voltage, re-power on to recover										
	OVER TEMPERATURE	95° C (3.3V ~ 7.5V), 85° C (12V ~ 48V) (TSW1 : detect on heatsink Q1 of power transistor)										
		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										
FUNCTION	5V STANDBY	5VSB:5V@0.3A; tolerance ± 5%, ripple:50mVp-p(max.)										
	REMOTE CONTROL		RC+ / RC-: $4 \sim 10 \text{V}$ or open = power on ; $0 \sim 0.8 \text{V}$ or short = power off									
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to output load derating curve)										
	WORKING HUMIDITY	20 ~ 90% RH no	20 ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH										
	TEMP. COEFFICIENT	±0.04%/°C (0 ~										
	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 & EMC (Note 4)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH										
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B										
	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	213.4K hrs min. MIL-HDBK-217F (25°C)									
OTHERS	DIMENSION	159*97*38mm	159*97*38mm (L*W*H)									
	PACKING		0.63Kg; 24pcs/16Kg/0.76CUFT									
	All parameters NOT specia	lly mentioned ar	e measured at :	230VAC input ra	ated load and 25	°C of ambient te	emperature					

- 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.



■ Function Description of CN100

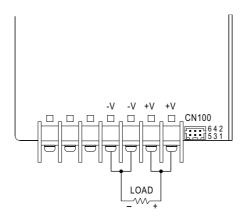
Pin No.	Function	Description
1		Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.5V.
2		Positive sensing. The +S signal should be connected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



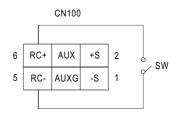


Fig 1.1

2.Remote Sense

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

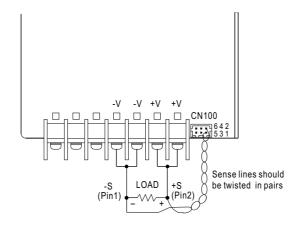




Fig 2.1