

SPECIFICATION



■ 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
- Built-in constant current limiting circuit
- 1U low profile 41mm
- · Built-in cooling fan ON-OFF control
- Built-in DC OK signal
- 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



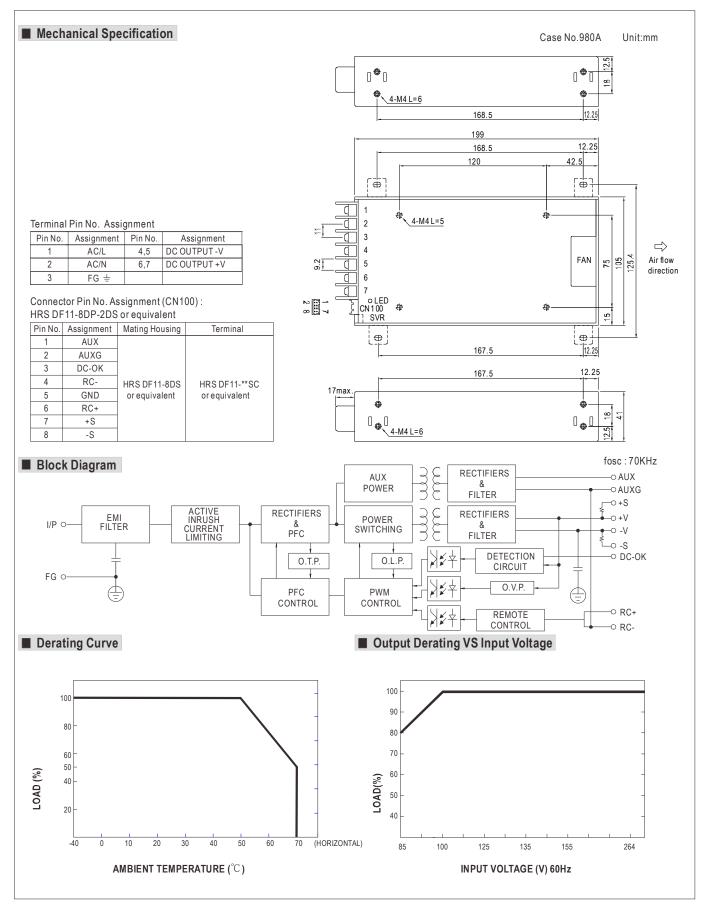


MODEL		HRPG-300-3.3	HRPG-300-5	HRPG-300-7.5	HRPG-300-12	HRPG-300-15	HRPG-300-24	HRPG-300-36	HRPG-300-4		
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V		
ОИТРИТ	RATED CURRENT	60A	60A	40A	27A	22A	14A	9A	7A		
	CURRENT RANGE	0 ~ 60A	0 ~ 60A	0 ~ 40A	0 ~ 27A	0 ~ 22A	0 ~ 14A	0 ~ 9A	0 ~ 7A		
	RATED POWER	198W	300W	300W	324W	330W	336W	324W	336W		
	RIPPLE & NOISE (max.) Note.2	80mVp-p	90mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-p	250mVp-p	250mVp-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%	±2.0%	±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	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME	1000ms, 50ms/230VAC 2500ms, 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	EFFICIENCY (Typ.)	80%	82%	86%	88%	88%	87%	88%	89%		
	AC CURRENT (Typ.)	3.5A/115VAC	1.8A/230VA	5							
	INRUSH CURRENT (Typ.)	35A/115VAC	70A/230VA	<u> </u>							
	LEAKAGE CURRENT	<1.2mA/240VAC									
	ELITATION OF THE PROPERTY OF T	105 ~ 135% rated output power									
	OVERLOAD	Protection type: Constant current limiting, recovers automatically after fault condition is removed									
PROTECTION	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		
. NO ILUTION				voltage, re-pov							
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down									
	5V STANDBY	5VSB: 5V@0.3A; tolerance ± 5%, ripple: 50mVp-p(max.)									
FUNCTION	DC OK SIGNAL	PSU turns on: 3.3 ~ 5.6V; PSU turns off: 0 ~ 1V									
	REMOTE CONTROL	RC+ / RC-: 4 ~ 10V or open = power on ; 0 ~ 0.8V or short = power off									
	FAN CONTROL (Typ.)	Load 35±15% or RTH2≥50°C Fan on									
ENVIRONMENT	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	, and the second									
	TEMP. COEFFICIENT	±0.03%/°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	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC									
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH									
(Note 4)	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3									
,/	EMC IMMUNITY	Compliance to EN33022 (GIST N22) GISSS B, EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, heavy industry level, criteria A									
OTHERS	MTBF	176K hrs min. MIL-HDBK-217F (25°C)									
		199*105*41mm (L*W*H)									
OTHERS	DIMENSION PACKING		5.3Kg/0.69CUF	Т							
					4	°C -t 1 ' · · ·					
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid EMC directives. For guidan (as available on http://www.	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red 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. dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets nece on how to perform these EMC tests, please refer to EMI testing of component power supplies. Ameanwell.com) under low input voltages. Please check the derating curve for more details.									

- 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 pin4,6) 0 ~ 0.8V or short.







■ Function Description of CN100

Pin No.	Function	Description
1	AUX	Auxiliary voltage output, 4.75~5.25V, reference to pin 2(AUXG). The maximum load current is 0.3A. This output is not controlled by the "remote ON/OFF control".
2	AUXG	Auxiliary voltage output ground. The signal return is isolated from the output terminals (+V & -V).
3	DC-OK	DC-OK signal is a TTL level signal, referenced to pin5(DC-OK GND). High when PSU turns on.
4	RC-	Remote control ground.
5	GND	This pin connects to the negative terminal(-V). Return for DC-OK signal output.
6	RC+	Turns the output on and off by electrical or dry contact between pin 4 (RC-), Short: Power OFF, Open: Power ON.
7	+S	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.
8		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 Sense

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

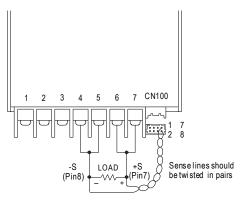




Fig 1.1

2.DC-OK Signal

DC-OK signal is a TTL level signal. High when PSU turns on.

Between DC-OK(pin3) and GND(pin5)	Output Status
3.3 ~ 5.6V	ON
0 ~ 1V	OFF

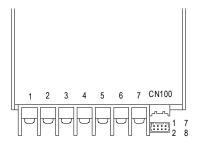




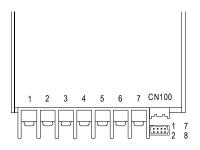
Fig 2.1



3.Remote Control

The PSU can be turned ON/OFF by using the "Remote ON/OFF" function $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) =\frac{1}{2}\left$

Between RC+(pin6) and RC-(pin4)	Output Status		
SW ON (Short)	OFF		
SW OFF (Open)	ON		



CN100

1 AUX DC-OK GND +S 7
2 AUXG RC- RC+ -S 8

Fig 3.1