

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)



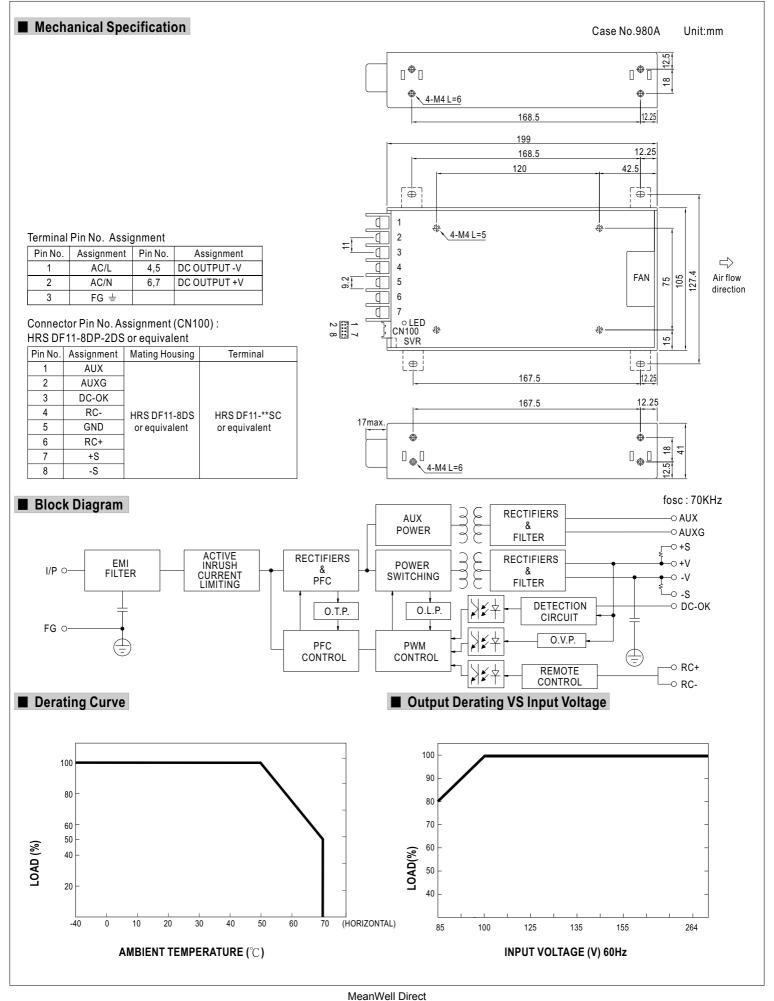
MODEL		HRPG-300-3.3	HRPG-300-5	HRPG-300-7.5	HRPG-300-12	HRPG-300-15	HRPG-300-24	HRPG-300-36	HRPG-300-4		
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V		
ОИТРИТ	RATED CURRENT	60A	60A	40A	27A	22A	14A	9A	7A		
	CURRENT RANGE	0 ~ 60A	0 ~ 60A	0 ~ 40A	0 ~ 27A	0 ~ 22A	0 ~ 14A	0 ~ 9A	0 ~ 7A		
	RATED POWER	198W	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 ~ 55.2V		
	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									
	, , ,	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%		
INPUI	AC CURRENT (Typ.)	4.5A/115VAC	2.5A/230VA		0070	0070	01 70	0070	0070		
	INRUSH CURRENT (Typ.)	4.5A/115VAC									
	LEAKAGE CURRENT										
	LEARAGE CORRECT	<1.2mA/240VAC									
	OVERLOAD	105 ~ 135% rated output power									
		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		
	OVER VOLTAGE						30 ~ 34.00	41.4~40.00	37.0~07.2		
PROTECTION		Protection type: Shut down o/p voltage, re-power on to recover									
	OVER TEMPERATURE	90°C ±5°C (TSW1: detect on heatsink of power transistor)									
		100°C ±5°C for 3.3V,5V,7.5V; 95°C ±5°C for others (TSW2: detect on heatsink of power diode)									
	EV OTANDEV	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	DC OK SIGNAL	PSU turns on: 3.3 ~ 5.6V; PSU turns off: 0 ~ 1V RC+ / RC-: 4 ~ 10V or open = power on; 0 ~ 0.8V or short = power off									
	REMOTE CONTROL				or snort = powe	r ott					
	FAN CONTROL (Typ.)	Load 35±15% or RTH2≥50°C Fan on									
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH									
	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:1.5KVAC O/P-FG:0.5KVAC									
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
(Note 4)	EMC EMISSION	Compliance to	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, heavy industry level, criteria A									
	MTBF	176K hrs min. MIL-HDBK-217F (25℃)									
OTHERS	DIMENSION	199*105*41mm (L*W*H)									
-	PACKING	0.95Kg;15pcs/15.3Kg/0.69CUFT									
NOTE	All parameters NOT specia				ated load and 2F	°C of ambient te	emnerature				
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid EMC directives. For guidan (as available on http://www.	ed at 20MHz of tolerance, line released a componence on how to pe	bandwidth by us egulation and lo ent which will be	sing a 12" twisted and regulation. a installed into a	d pair-wire termi final equipment.	nated with a 0.1 The final equipr	uf & 47uf paralle	confirmed that i	t still meets		

- (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 pin4,6) 0 ~ 8V or short.







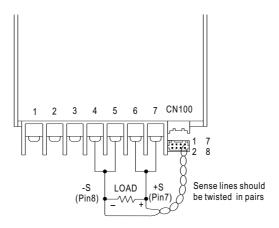
■ Function Description of CN100

Pin No.	Function	Description
1		Auxiliary voltage output, 4.75~5.25V, reference to pin 2(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".
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 0.5V.



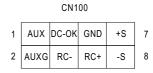
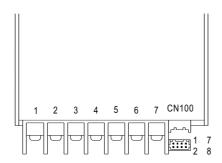


Fig 1.1

2.DC-OK Signal

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

Between DC-OK(pin6) and GND(pin4)	Output Status
3.3 ~ 5.6V	ON
0 ~ 1V	OFF



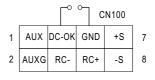


Fig 2.1



3.Remote Control

The PSU can be turned ON/OFF by using the "Remote ON/OFF" function

300W Single Output with PFC Function

Between RC+(pin3) and RC-(pin5)	Output Status
SW ON (Short)	OFF
SW OFF (Open)	ON

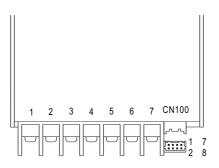
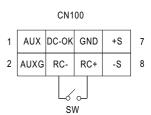


Fig 3.1



Mouser Electronics

Authorized Distributor

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MEAN WELL:

<u>HRPG-300-3.3</u> <u>HRPG-300-5</u> <u>HRPG-300-7.5</u> <u>HRPG-300-12</u> <u>HRPG-300-15</u> <u>HRPG-300-24</u> <u>HRPG-300-36</u> <u>HRPG-300-48</u>