





Features

- · Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- · High efficiency up to 94%
- · Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in cooling fan ON-OFF control
- Current sharing up to 4000W (3+1)
- Built-in DC OK signal
- Built-in remote ON-OFF control
- · Standby 5V@0.3A
- Built-in remote sense function
- No load power consumption<0.75W (Note.6)
- 5 years warranty

Certificates

Safety: UL/EN62368-1

• EMC: EN55032

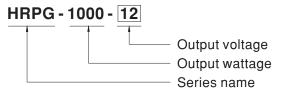
Applications

- · Factory control or automation apparatus
- · Test and measurement instrument
- · Laser related machine
- · Aging equipment
- RF application

■ Description

HRPG-1000 is a single output enclosed type AC/DC power supply providing 1000 W output power for a wide range of industrial applications. This series operates for 90~264 VAC input voltage and offers models with different rated voltage ranging between 12 and 48 V that can satisfy the demands for all kinds of industrial equipments. Each model is cooled by the built-in fan with speed control, working for the temperature up to 70°C. Moreover, HRPG-1000 has various built-in functions such as auxiliary power, remote sense and remote on-off control, offering vast design flexibility for industrial application.

■ Model Encoding / Order Information





SPECIFICATION

MODEL		HRPG-1000-12	HRPG-1000-15	HRPG-1000-24	HRPG-1000-48	
	DC VOLTAGE	12V	15V	24V	48V	
OUTPUT	RATED CURRENT	80A	64A	42A	21A	
	CURRENT RANGE	0 ~ 80A	0 ~ 64A	0 ~ 42A	0 ~ 21A	
	RATED POWER	960W (max. 1000W for 3 sec.)	960W (max. 1000W for 3 sec.)	1008W	1008W	
	RIPPLE & NOISE (max.) Note.2		150mVp-p	200mVp-p	250mVp-p	
	VOLTAGE ADJ. RANGE	11 ~ 14V	14 ~ 17V	22 ~ 28V	46 ~ 56V	
	VOLTAGE TOLERANCE Note.3		±1.5%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±2.0%	±1.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	1000ms, 50ms/230VAC 2000ms, 50ms/115VAC at full load				
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load				
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC(300VAC for 5 sec.) 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.99/115VAC at full load				
	EFFICIENCY (Typ.)	91.5%	91.5% 92% 93% 94%			
	AC CURRENT (Typ.)	8.5A/115VAC 5A/230VAC				
	INRUSH CURRENT (Typ.)	25A/115VAC 40A/230VAC				
	LEAKAGE CURRENT	<1.2mA/240VAC				
	LEARAGE CORRENT	105 ~ 135% rated output power				
PROTECTION	OVERLOAD	Protection type: Constant current limiting, recovers automatically after fault condition is removed				
		•			1	
	OVER VOLTAGE	14.5 ~ 16.5V	18.2 ~ 20.6V	29 ~ 33V	58 ~ 65V	
		Protection type : Shut down o/p	p voltage, re-power on to recove	r		
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down				
FUNCTION	CURRENT SHARING	Up to 4000W or (3+1) units. Please refer to the Function Manual.				
	REMOTE ON-OFF CONTROL	Power ON: short; Power OFF: open. Please refer to the Function Manual.				
	REMOTE SENSE	Compensate voltage drop on the load wiring up to 0.5V. Please refer to the Function Manual.				
	DC-OK SIGNAL	The TTL signal out, PSU turn on = 3.3 ~ 5.6V; PSU turn off = 0 ~ 1V. Please refer to the Function Manual.				
	5V STANDBY	5VSB:5V@0.3A; tolerance±5%, ripple:50mVp-p(max.)				
	FAN CONTROL					
ENVIRONMENT		Fan on/off by NTC(RT50) or 30% load min.				
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY					
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)				
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH				
	EMC EMISSION	Parameter	Standard		Test Level / Note	
		Conducted	EN55032 (CISPR32)	/ EN55011 (CISPR11)	Class B	
		Radiated	,	/ EN55011 (CISPR11)		
			, ,	(CIOFICT)		
		Harmonic Current	EN61000-3-2		Class A	
		Voltage Flicker	EN61000-3-3			
SAFETY & EMC (Note 7)	EMC IMMUNITY	EN55024, EN61000-6-2				
		Parameter	Standard		Test Level / Note	
		ESD	EN61000-4-2		Level 3, 8KV air ; Level 2, 4KV contact	
		Radiated	EN61000-4-3		Level 3	
		EFT / Burst	EN61000-4-4		Level 3	
		Surge	EN61000-4-5		Level 4, 2KV/Line-Line 4KV/Line-Earth	
		Conducted	EN61000-4-6		Level 3	
		Magnetic Field	EN61000-4-8		Level 4	
		Magnetic Field	LIV01000-4-0		>95% dip 0.5 periods, 30% dip 25 period	
		Voltage Dips and Interruptions	EN61000-4-11		>95% interruptions 250 periods	
OTHERS	MTBF		R-332 (Bellcore) ; 105.8K hrs m	n. MIL-HDBK-217F	- (20 C)	
	DIMENSION	218*105*63.5mm (L*W*H)				
	PACKING	1.53Kg;8pcs/13.3Kg/1.34CUFT				
NOTE	Ripple & noise are measure Tolerance: includes set up Derating may be needed ur Length of set up time is me No load power consumption The power supply is consid	ad at 20MHz of bandwidth by us tolerance, line regulation and loader low input voltages. Please of assured at first cold start. Turning 1-0.75W when RC+ & RC- (CN) ered a component which will be	check the derating curve for more ON/OFF the power supply may 100 pin3,4) open. installed into a final equipment.	nated with a 0.1 uf & 4 e details. I lead to increase of the All the EMC tests are	7uf parallel capacitor.	
	perform these EMC tests, p	lease refer to "EMI testing of co	mponent power supplies." (as a		meanwell.com) erating altitude higher than 2000m(6500	