











- Universal AC input / Full range(up to 305VAC)
- · Built-in active PFC function
- High efficiency up to 93.5%
- · Fanless design, cooling by free air convection
- -55~+70°C wide operating range
- · Aluminum case and filling with heat-conducted silicone
- · IP65 design, optional IP68 rated model available
- Meet 6KV surge immunity level
- · Withstand 10G vibration test
- · Operating altitude up to 5000 meters (Note.8)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 6 years warranty (Note.10)













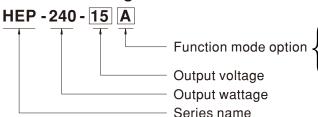
Applications

- Outdoor telecommunication equipment
- · Outdoor electronic signage and billboard
- · Petroleum plant or mine shaft facility

Description

HEP-240 is a 240W industrial AC/DC power supply featuring the outstanding capability to operate under a harsh environment with high dust density, humidity, vibration and altitude. The entire series is housed with a robust aluminum case and fully potted with heat-conducted silicone. Thanks to state-of-the-art design, the working efficiency is up to 93.5%, enabling HEP-240, with a fanless design, perfectly work between -55°C and +70°C under free air convection.

■ Model Encoding



A : Standard model, IP65, Vo and Io level can be adjusted through internal potentiometer.

Blank: Optional model, IP68, with fixed Vo and Io level.



SPECIFICATION

MODEL		HEP-240-12	HEP-240-15	HEP-240-24	HEP-240-36	HEP-240-48	HEP-240-54
	DC VOLTAGE	12V	15V	24V	36V	48V	54V
OUTPUT	RATED CURRENT	16A	15A	10A	6.7A	5A	4.45A
	RATED POWER	192W	225W	240W	241.2W	240W	240.3W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	250mVp-p	250mVp-p	350mVp-p
	VOLTAGE ADJ. RANGE Note.5		14 ~ 16V	22.4 ~ 25.6V	33.5 ~ 38.5V	44.8 ~ 51.2V	50 ~ 57V
	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer for A type only					
		8 ~ 16A	7.5 ~ 15A	5 ~ 10A	3.3 ~ 6.7A	2.5 ~ 5A	2.23 ~ 4.45A
	VOLTAGE TOLERANCE Note.3	±2.5%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±2.0%	±1.5%	±0.5%	±0.5%	±0.5%	±0.5%
		1000ms,80ms/115V		/230VAC at full load			
	HOLD UP TIME (Typ.)	15ms at full load 230VAC /115VAC					
INPUT	, , , ,	90 ~ 305VAC 127 ~ 431VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load					
	EFFICIENCY (Typ.)	90%	90%	92.5%	92.5%	93%	93.5%
	12\/			0.9A/277VAC	02.070	00 /0	00.070
	AC CURRENT (Typ.) 15~54V	2.5A / 115VAC 1.3A / 230VAC 0.5A/27TVAC 1.1A/277VAC					
	INRUSH CURRENT(Typ.)	COLD START 75A at 230VAC					
	LEAKAGE CURRENT	COLD START 75A AL 230VAC <0.75mA / 277VAC					
PROTECTION	LEARAGE CURRENT	105 ~ 125%					
	OVER CURRENT	Protection type: Constant current limiting, recovers automatically after fault condition is removed					
		Constant current limiting, recovers automatically after fault condition is removed					
	SHORT CIRCUIT					55 001/	00 071/
	OVER VOLTAGE	13.5 ~ 18V	17.5 ~ 21.5V	27 ~ 34V	43 ~ 49V	55 ~ 63V	60 ~ 67V
		Protection type: Shut down and latch off o/p voltage, re-power on to recover					
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down					
ENVIRONMENT	WORKING TEMP.	-55 ~ +70°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-60 ~ +80°C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)					
	VIBRATION	20 ~ 500Hz, 10G 12min./1cycle, period for 72min. each along X, Y, Z axes					
SAFETY & EMC	SAFETY STANDARDS Note.8	UL62368-1, IEC/EN62368-1, IP65 (or IP68 for HEP-240 Blank-Type), EAC TP TC 004 approved;					
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level (surge 6KV), criteria A, EAC TP TC 020					
OTHERS	MTBF	171.3K hrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	244.2*68*38.8mm (L*W*H)					
	PACKING	1.3Kg; 12pcs/16.6Kg/0.84CUFT					
NOTE	Ripple & noise are measure Tolerance : includes set up Derating may be needed un A-Type only. Length of set up time is mea The power supply is conside complete installation, the fina The water protection level te Refer to warranty statement	by mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. In the distribution of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. It is tolerance, line regulation and load regulation. Inder low input voltages. Please check the static characteristics for more details. Inder low input voltages. Please check the static characteristics for more details. In assured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. It is ered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the all equipment manufacturers must re-qualify EMC Directive on the complete installation again. It is set for the IP68 rating is performed 1000mm below the surface of the water for 1 month. In the distribution of the interval all titude higher than 2000m(650).					

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