

HEP-240 series





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Applications

GTIN CODE

Outdoor telecommunication equipment

· Petroleum plant or mine shaft facility

· Outdoor electronic signage and billboard

MW Search: https://www.meanwell.com/serviceGTIN.aspx



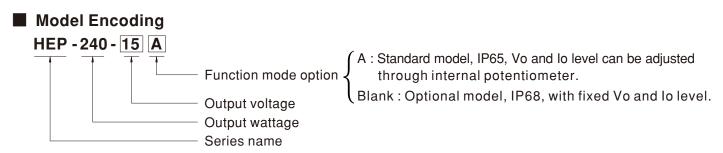


Features

- Universal AC input / Full range
- · Built-in active PFC function
- High efficiency up to 93.5%
- · Fanless design, cooling by free air convection
- -55~+70 $^\circ\!\mathrm{C}$ 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)

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.





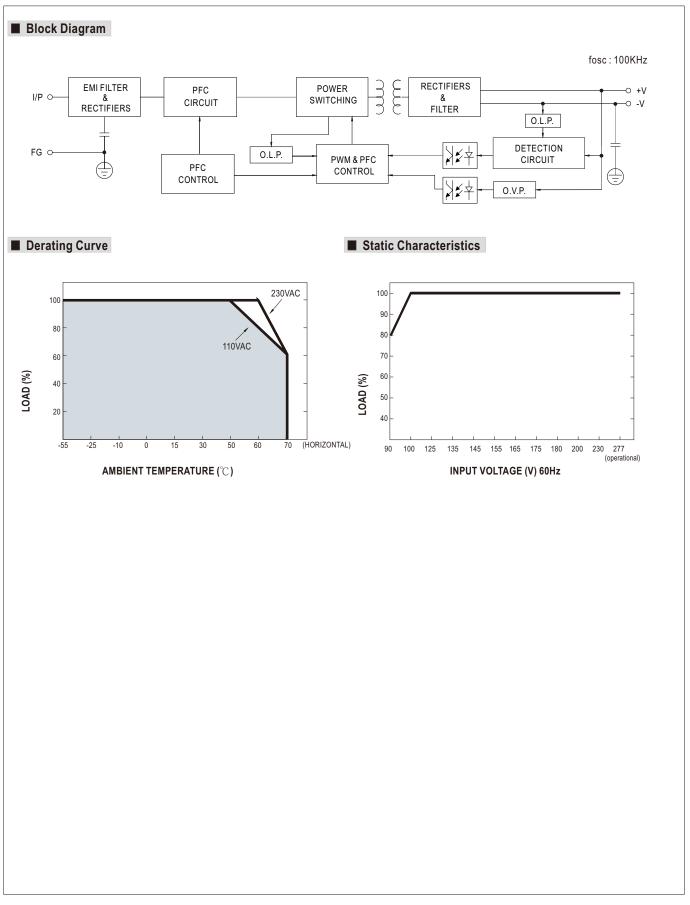
SPECIFICATION

MODEL			HEP-240-12	HEP-240-15	HEP-240-24	HEP-240-36	HEP-240-48	HEP-240-54
OUTPUT	DC VOLTAGE		12V	15V	24V	36V	48V	54V
	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		11.2 ~ 12.8V	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%
	SETUP, RISE TIME Note.6		1000ms,80ms/115VAC 500ms,80ms/230VAC at full load					
	HOLD UP TIME (Typ.)		15ms at full load 230VAC /115VAC					
INPUT	VOLTAGE RANGE Note.4		90~264VAC (277VAC operational) 128~370VDC(390VDC operational)					
	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%
		12V	2A / 115VAC	.05A/230VAC).9A/277VAC			
	AC CURRENT (Typ.)	15~54V	2.5A / 115VAC 1.3A / 230VAC 1.1A/277VAC					
	INRUSH CURRENT(Typ.)		COLD START 75A at 230VAC					
	LEAKAGE CURRENT		<0.75mA/277VAC					
PROTECTION	OVER CURRENT		105 ~ 125%					
			Protection type : Constant current limiting, recovers automatically after fault condition is removed					
	SHORT CIRCUIT		Constant current limiting, recovers automatically after fault condition is removed					
	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, IEC62368-1, IP65 (or IP68 for HEP-240 Blank-Type), EAC TP TC 004 approved; Design refer to BS EN/EN62368-1					
	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 BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020					
	EMC IMMUNITY		Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level (surge 6KV), EAC TP TC 020					
OTHERS	MTBF		2008.7K hrs min. Telcordia SR-332 (Bellcore); 171.3Khrs min. MIL-HDBK-217F (25°C)					
	DIMENSION		244.2*68*38.8mm (L*W*H)					
	PACKING		1.3Kg; 12pcs/16.6Kg/0.84CUFT					
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltages. Please check the static characteristics for more details. A-Type only. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) The water protection level test for the IP68 rating is performed 1000mm below the surface of the water for 1 month. Refer to warranty statement. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500 %). 							



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