





IP65 IP68 (optional) R c Su [fil CBC E

■ Features

- 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)

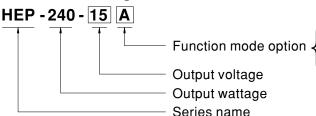
Applications

- 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.

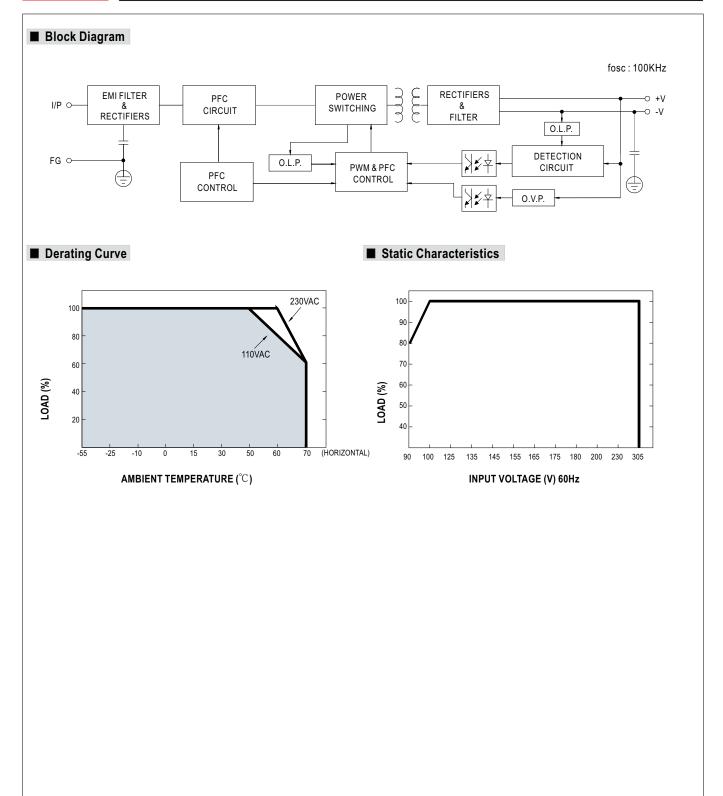
Blank: Optional model, IP68, with fixed Vo and Io level.



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
ОИТРИТ	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 ~ 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%
	AC CUPPENT (Typ.)	2A / 115VAC 1.	.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%					
	OVERCORRENT	Protection type: Constant current limiting, recovers automatically after fault condition is removed					
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed					
	0VED VOLTA 0E	13.5 ~ 18V	17.5 ~ 21.5V	27 ~ 34V	43 ~ 49V	55 ~ 63V	60 ~ 67V
	OVER VOLTAGE	Protection type : Shu	ut 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	UL60950-1, IP65 (or IP68 for HEP-240 Blank-Type), EAC TP TC 004 approved; design refer to TUV EN60950-1					
	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 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 fin. The water protection level te Refer to warranty statement	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed 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. Inder low input voltages. Please check the static characteristics for more details. easured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. dered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the nal equipment manufacturers must re-qualify EMC Directive on the complete installation again. test for the IP68 rating is performed 1000mm below the surface of the water for 1 month. it. derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500).					



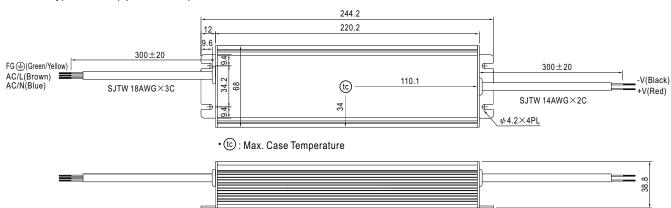




■ Mechanical Specification Case No.994H Unit:mm A-Type: HEP-240-_A(standard model) 244.2 220.2 300±20 FG (Green/Yellow) AC/L(Brown) AC/N(Blue) 300 ± 20 -V(Black) 110.1 34.2 89 (tc SJTW 18AWG×3C +V(Red) SJTW 14AWG×2C Vo ADJ. \(\) ADJ. 34 ψ4.2×4PL • (tc): Max. Case Temperature

※ IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer. (Can access by removing the rubber stopper on the case.)

Blank-Type: HEP-240(optional model)



■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html