





















■ Features

- Universal AC input / Full range(up to 305VAC)
- · Built-in active PFC function
- · High efficiency up to 95%
- · 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

■ Applications

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

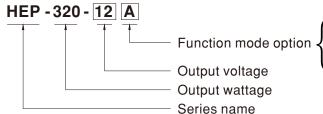
GTIN CODE

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

Description

HEP-320 is a 320W 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 95%, enabling HEP-320, with a fanless design, perfectly work between -55°C and +70°C under free air convection.

■ Model Encoding



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

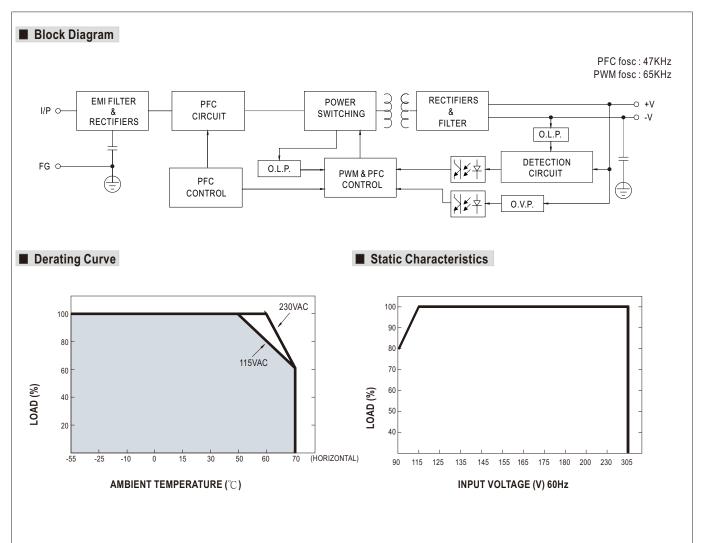
Blank: Optional model, IP68, with fixed Vo and Io level.

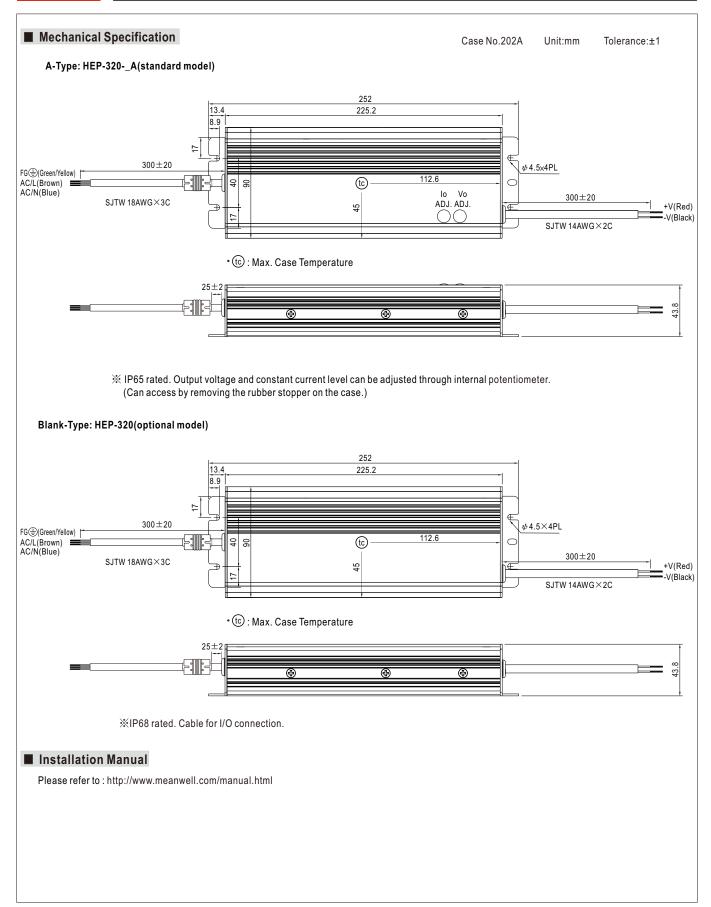


SPECIFICATION

MODEL		HEP-320-12	HEP-320-15	HEP-320-24	HEP-320-36	HEP-320-48	HEP-320-54	
	DC VOLTAGE	12V	15V	24V	36V	48V	54V	
OUTPUT	RATED CURRENT	22A	19A	13.34A	8.9A	6.7A	5.95A	
	RATED POWER	264W	285W	320.16W	320.4W	321.6W	321.3W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	250mVp-p	250mVp-p	350mVp-p	
	VOLTAGE ADJ. RANGE Note.5	10.8 ~ 13.5V	13.5 ~ 17V	21 ~ 26V	32 ~ 39V	43 ~ 52V	49 ~ 58V	
	CURRENT ADJ. RANGE Note.5	11 ~ 22A	9.5 ~ 19A	6.67 ~ 13.34A	4.45 ~ 8.9A	3.35 ~ 6.7A	2.97 ~ 5.95A	
	VOLTAGE TOLERANCE Note.3	±3.0%	±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	2500ms,80ms/115VAC 600ms,80ms/230VAC at full load						
	HOLD UP TIME (Typ.)	15ms at full load 230VAC /115VAC						
INPUT	VOLTAGE RANGE Note.4	85~264VAC (277VAC operational) 120~370VDC(390VDC operational)						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.94/277VAC at full load						
	EFFICIENCY (Typ.)	91%	92.5%	94%	94%	94.5%	95%	
	AC CURRENT (Typ.)	3.5A / 115VAC 1.65A / 230VAC 1.45A / 277VAC						
	INRUSH CURRENT(Typ.)	COLD START 70A at 230VAC						
	LEAKAGE CURRENT	<0.75mA / 277VAC						
PROTECTION	OVER CURRENT	105 ~ 125%						
	OVER CONTENT	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed						
	OVER VOLTAGE	14 ~ 17V	17.5 ~ 21V	27 ~ 33V	40 ~ 46V	53.5 ~ 60V	59 ~ 65V	
		Protection type : Shut down and latch off o/p voltage, re-power on to recover						
	OVER TEMPERATURE	Shut down and latch off o/p voltage, re-power on to recover						
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-320 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	1565.6K hrs min. Telcordia SR-332 (Bellcore); 154.2Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	252*90*43.8mm (L*W*H)						
	PACKING	1.88Kg; 8pcs/16Kg/0.92CUFT						
NOTE	1. 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.						
	5. A-type only.							
	6. 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.							
	7. 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.							
	complete installation, the final equipment manufacturers must re-qualify EMIC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)							
		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(6500ft).						
	9. The water protection level to	test for the IP68 rating is performed 1000mm below the surface of the water for 1 month.						
	Product Liability Disclaimer	r : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						







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