













- Universal AC input / Full range
- · 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

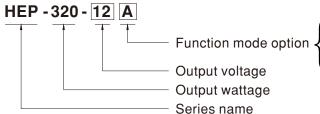
■ GTIN CODE

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℃ 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.

320W Switching Power Supply for Harsh Environment

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	
ОИТРИТ	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						
	VOLTAGE RANGE Note.4	90~264VAC (277VAC operational) 128~370VDC(390VDC operational)						
INPUT	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.)			1.45A / 277VAC	1 - 170	23370	1 2 2 7 2	
	INRUSH CURRENT(Typ.)	COLD START 70A at 230VAC						
	LEAKAGE CURRENT	<0.75mA/277VAC						
	ELITORIO DO GRANCE IN TRANSPORTE IN TRANSPOR	105 ~ 125%						
PROTECTION	OVER CURRENT							
	SHORT CIRCUIT	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed 14 ~ 17V						
	OVER VOLTAGE					33.3 ~ 00 V	39 ~ 03 V	
	OVED TEMPEDATURE	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	7,-7,-7,-3,-7,-7,-7,-7,-7,-7,-7,-7,-7,-7,-7,-7,-7,						
	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℃)						
	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. 							
	Tolerance : includes set up tolerance, line regulation and load regulation. Denating 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. (as available on https://www.meanwell.com//Upload/PDF/EMI statement en.pdf)							
	8. 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(6500ft).							
	9. The water protection level test for the IP68 rating is performed 1000mm below the surface of the water for 1 month.							
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