























### **■** Features

- · Universal AC input / Full range
- · Built-in active PFC function
- · High efficiency up to 93%
- · 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
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Operating altitude up to 5000 meters (Note.9)
- 6 years warranty

# ■ Applications

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

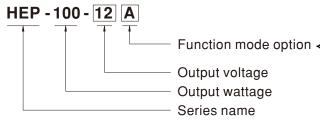
#### ■ GTIN CODE

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

## Description

HEP-100 is a 100W industrial AC/DC power supply featuring the outstanding capability to operate under highly humid, dusty, oily, and high-vibration harsh environment. The entire series is housed with the aluminum case and fully potted with heat-conducted silicone. Thanks to state-of-the-art design, the working efficiency is up to 93%, enabling HEP-100 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-100-12	HEP-100-15	HEP-100-24	HEP-100-36	HEP-100-48	HEP-100-54
ОИТРИТ	DC VOLTAGE	12V	15V	24V	36V	48V	54V
	RATED CURRENT	8.34A	6.67A	4A	2.65A	2A	1.77A
	RATED POWER	100.08W	100.05W	96W	95.4W	96W	95.58W
	RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE Note.5	10.8 ~ 13.5V	13.5 ~ 17V	22 ~ 27V	33 ~ 40V	43 ~ 53V	49 ~ 58V
	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer for A type only					
		5 ~ 8.34A	4 ~ 6.67A	2.5 ~ 4A	1.65 ~ 2.65A	1.25 ~ 2A	1.1 ~ 1.77A
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.5%	±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.7	1200ms,50ms/115VAC 500ms,50ms/230VAC at full load					
	HOLD UP TIME (Typ.)	16ms 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>0.91/277VAC at full load					
	EFFICIENCY (Typ.)	92%	92%	93%	93%	93%	93%
	AC CURRENT (Typ.)	1.2A / 115VAC	0.55A / 230VAC	0.5A / 277VAC	;		
	INRUSH CURRENT(Typ.)	COLD START 60A at 230VAC					
	LEAKAGE CURRENT	<0.75mA/277VAC					
PROTECTION		105 ~ 125%					
	OVERLOAD	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	14 ~ 17V	18 ~ 21V	28 ~ 34V	41 ~ 46V	54 ~ 63V	59 ~ 65V
		Protection type : S	hut down o/p voltag	ge with auto-recove	ry or re-power on to	recovery	
	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						
	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.6,9	UL62368-1, IEC62368-1,IP65 (or IP68 for HEP-100 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	1970.2K hrs min. Telcordia SR-332 (Bellcore); 164.8Khrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	220*68*38.8mm (L*W*H)					
	PACKING	1.12Kg; 12pcs/14.					
NOTE	All parameters NOT specific and specific and specific are measured.	ecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  asured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacito t up tolerance, line regulation and load regulation.  ad under low input voltages. Please check the static characteristics for more details.					

- 4. Derating may be needed under low input voltages. Please check the static characteristics for more details.
- 6. Safety and EMC design refer to BS EN/EN60598-1, CNS15233, GB7000.1, FCC part18.
- 7. 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.
- 8. 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)
- 9. The water protection level test for the IP68 rating is performed 1000mm below the surface of the water for 1 month.
- 10. 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).
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



