

**HEP-100** 















- Universal AC input / Full range (up to 305VAC)
- · 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

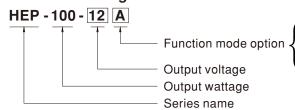
### **GTIN CODE**

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 lo level.

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# HEP-100 series

#### **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	85~264VAC (277VAC operational) 120~370VDC(390VDC operational)					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.91/277VAC 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	OVERLOAD	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					
		14 ~ 17V	18 ~ 21V	28 ~ 34V	41 ~ 46V	54 ~ 63V	59 ~ 65V
	OVER VOLTAGE	Protection type : S	hut down o/p voltag	e with auto-recove	ry or re-power on to	o 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/EN55024, 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℃)					
	DIMENSION	220*68*38.8mm (L*W*H)					
	PACKING	1.12Kg; 12pcs/14.4Kg/0.8CUFT					
NOTE	Ripple & noise are mea     Tolerance : includes set     Derating may be neede     A type only.     Safety and EMC design     Length of set up time is     The power supply is corbe affected by the compagain.     The water protection lev	ecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. sured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. up tolerance, line regulation and load regulation. d under low input voltages. Please check the static characteristics for more details.  I refer to BS EN/EN60598-1, CNS15233, GB7000.1, FCC part18. measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. Insidered as a component that will be operated in combination with final equipment. Since EMC performance will polete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation are less for the IP68 rating is performed 1000mm below the surface of the water for 1 month.					

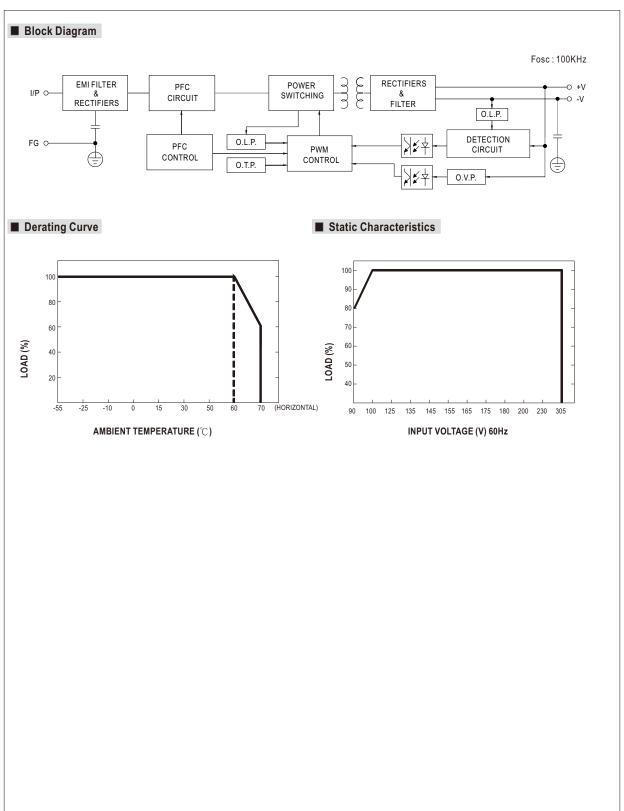
- 10. The ambient temperature derating of  $3.5^{\circ}$ C/1000m with fanless models and of  $5^{\circ}$ C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

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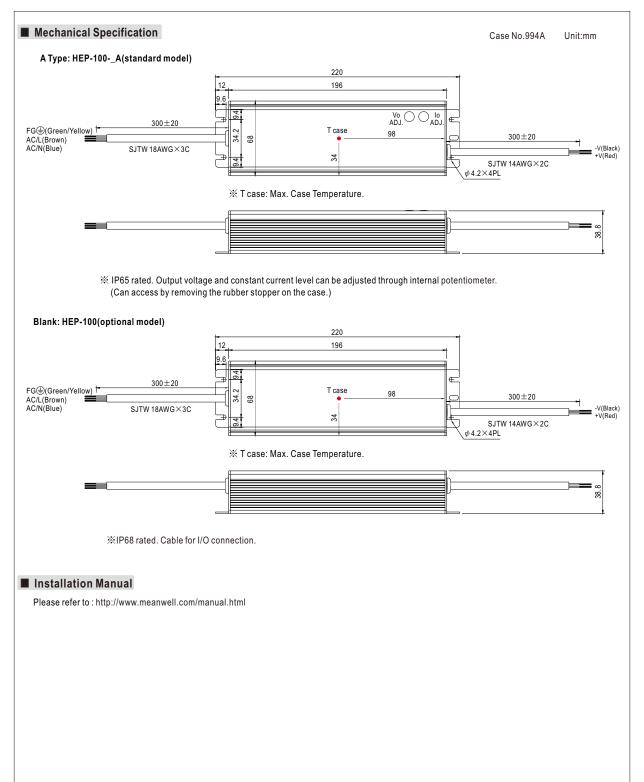


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# We are here for you. Addresses and Contacts.

Headquarter Switzerland:

Angst+Pfister Sensors and Power AG
Thurgauerstrasse 66
CH-8050 Zurich
Phone +41 44 877 35 00
sensorsandpower@angst-pfister.com

Office Germany:

Angst+Pfister Sensors and Power Deutschland GmbH Edisonstraße 16 D-85716 Unterschleißheim Phone +49 89 374 288 87 00 sensorsandpower.de@angst-pfister.com

Scan here and get an overview of personal contacts!



sensorsandpower.angst-pfister.com