











Features

- Universal AC input / Full range (up to 305VAC)
- · Built-in active PFC function
- · High efficiency up to 94%
- · 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

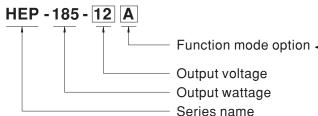
Applications

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

Description

HEP-185 is a 185W 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 94%, enabling HEP-185 perfectly work between -55°C and +70°C under free air convection.

■ Model Encoding

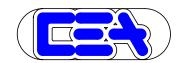


A: Standard model, IP65, Vo and Io level can be adjusted through internal potentiometer.

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

File Name: HEP-185-SPEC 2017-07-14







185W Single Output Switching Power Supply

HEP-185 series

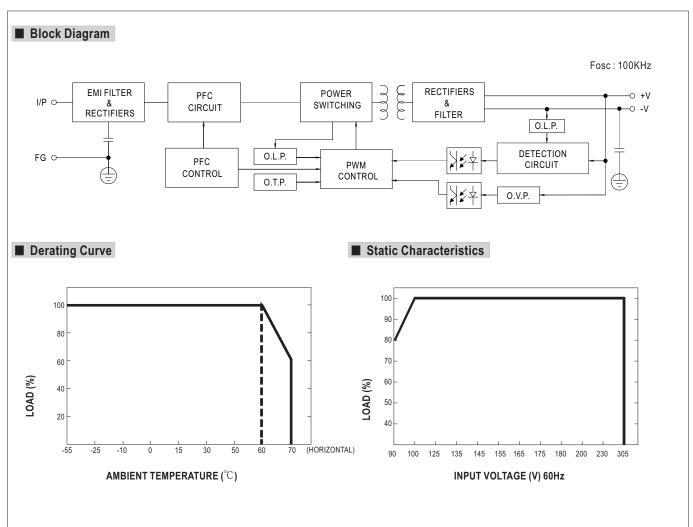
SPECIFICATION

MODEL		HEP-185-12	HEP-185-15	HEP-185-24	HEP-185-36	HEP-185-48	HEP-185-54	
	DC VOLTAGE		12V	15V	24V	36V	48V	54V
OUTPUT	RATED CURRENT		13A	11.5A	7.8A	5.2A	3.9A	3.45A
	RATED POWER		156W	172W	187.2W	187.2W	187.2W	186.3W
	RIPPLE & NOISE (max.) Note.2		150mVp-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					
			6.5 ~ 13A	5.75 ~ 11.5A	3.9 ~ 7.8A	2.6 ~ 5.2A	1.95 ~ 3.9A	1.72 ~ 3.45A
	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.7		1000ms,50ms/115VAC 500ms,50ms/230VAC at full load					
	HOLD UP TIME (Typ.)		16ms 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 (T	yp.)	91.5%	92%	93.5%	93.5%	94%	94%
	AC CURRENT	12V	1.8A / 115VAC	0.8A / 230VAC	0.7A / 277VAC			
	(Typ.)	15V ~ 54V	2.1A / 115VAC	1A / 230VAC	0.8A / 277VAC			
	INRUSH CURRENT(Typ.)		COLD START 65A 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					
	OVER VOLTAGE		14 ~ 17V	18 ~ 21V	28 ~ 34V	41 ~ 46V	54 ~ 63V	59 ~ 65V
			Protection type : S	hut down o/p voltag	je with auto-recover	ry or re-power on to	recovery	1
	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					
			UL60950-1, IP65 (or IP68 for HEP-185 Blank type) approved; design refer to TUV EN60950-1					
SAFETY & EMC	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					
	EMC IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level (surge 6KV), criteria A					
	MTBF		164.1K hrs min. MIL-HDBK-217F (25°C)					
	DIMENSION		228*68*38.8mm (L*W*H)					
	PACKING		1.15Kg; 12pcs/14.8Kg/0.8CUFT					
NOTE	 Ripple & noi Tolerance Derating ma A type only Safety and E Length of se The power swill be operacomplete ins The ambien 	se are mea includes set y be neede EMC design at up time is supply is con ated in coml stallation, the	ecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. It is sured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor it up tolerance, line regulation and load regulation. It is under low input voltages. Please check the static characteristics for more details. In refer to EN60598-1, CNS15233, GB7000.1, FCC part18. In measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. In misidered as a component that bination with final equipment. Since EMC performance will be affected by the efinal equipment manufacturers must re-qualify EMC Directive on the complete installation again. The derating of 3.5°C/1000m is needed for operating altitude greater than 2000m(6500ft). The evel test for the IP68 rating is performed 1000mm below the surface of the water for 1 month.					

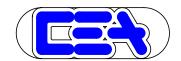


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HEP-185 series



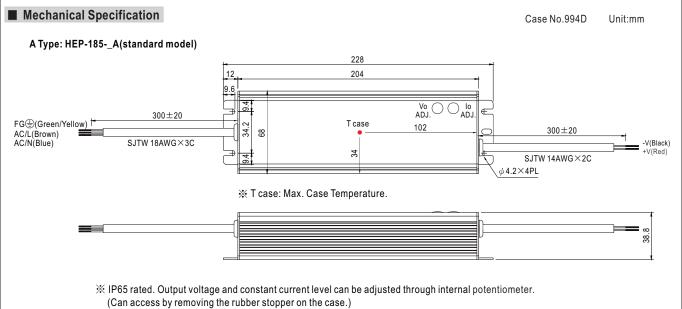


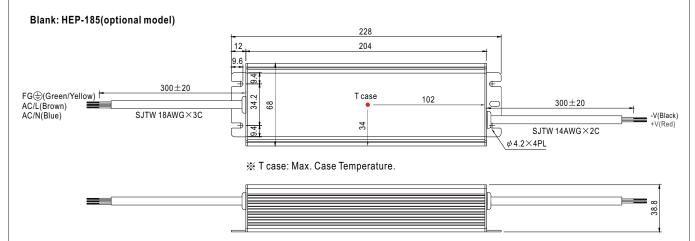




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■ Installation Manual

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

