













- · Universal AC input / Full range
- · 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

# Household Auto











## Applications

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

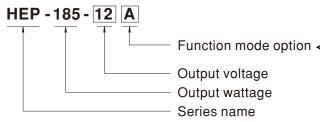
#### GTIN CODE

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

## Description

HEP-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 lo level can be adjusted through internal potentiometer.

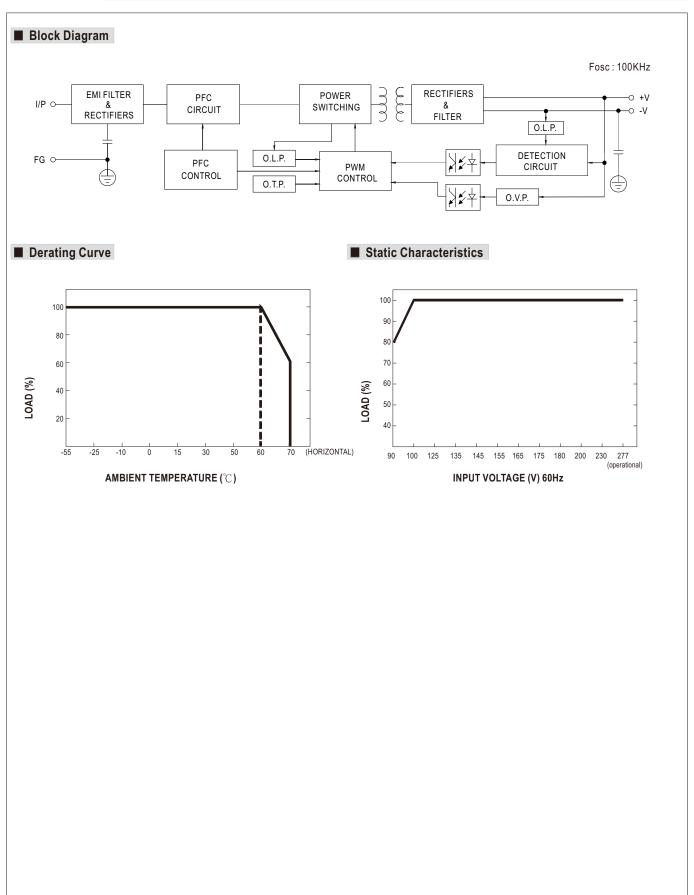
Blank: Optional model, IP68, with fixed Vo and Io level.

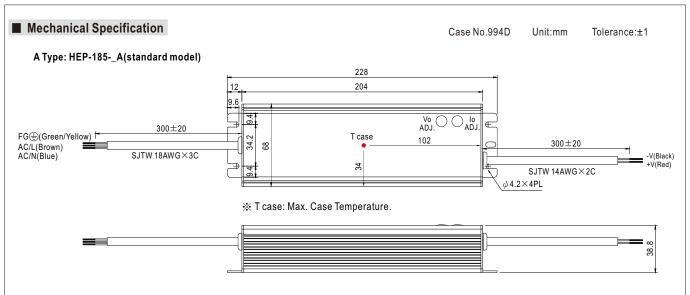


#### **SPECIFICATION**

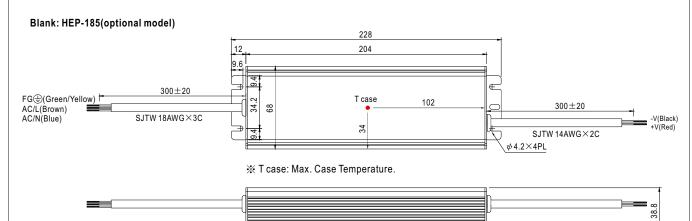
MODEL			HEP-185-12	HEP-185-15	HEP-185-24	HEP-185-36	HEP-185-48	HEP-185-54
	DC VOLTAGE		12V	15V	24V	36V	48V	54V
ОИТРИТ	RATED CURRENT		13A	11.5A	7.8A	5.2A	3.9A	3.45A
	RATED POWER		156W	172W	187.2W	187.2W	187.2W	186.3W
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE Note.5			13.5 ~ 17V	22 ~ 27V	33 ~ 40V	43 ~ 53V	49 ~ 58V
	CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.3		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
			±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%
			1000ms,50ms/115VAC 500ms,50ms/230VAC at full load					
	HOLD UP TIME (Typ.)		16ms at full load 230VAC /115VAC					
INPUT			90~264VAC (277VAC operational) 128~370VDC(390VDC operational)					
	FREQUENCY RANGE		47 ~ 63Hz					
	POWER FACTOR (Typ.)		PF>0.98/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load					
	EFFICIENCY (Typ.)		91.5%	92%	93.5%	93.5%	94%	94%
	AC CURRENT	12V	1.8A / 115VAC	0.8A / 230VAC	0.7A / 277VAC	00.070	UT /0	J 70
	(Typ.)	15V ~ 54V		1A / 230VAC				
	INRUSH CURRENT(Typ.) LEAKAGE CURRENT		COLD START 65A at 230VAC					
	LEARAGE 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: Shut down o/p voltage with auto-recovery 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 STANDARDS Note.6,9		UL62368-1, IEC62368-1, IP65 (or IP68 for HEP-185 Blank type), EAC TP TC 004 approved;					
			Design refer to BS EN/EN62368-1					
SAFETY &	WITHSTAND VOLTAGE		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC					
EMC	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 03					
OTHERS	MTBF		1967.4K hrs min. Telcordia SR-332(Bellcore); 164.2K hrs min. MIL-HDBK-217F (25°C)					
	DIMENSION		228*68*38.8mm (L*W*H)					
	PACKING		1.15Kg; 12pcs/14.8Kg/0.8CUFT					
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capace.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>Derating may be needed under low input voltages. Please check the static characteristics for more details.</li> <li>A type only.</li> <li>Safety and EMC design refer to BS EN/EN60598-1, CNS15233, GB7000.1, FCC part18.</li> <li>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.</li> <li>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.         <ul> <li>(as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)</li> </ul> </li> <li>The water protection level test for the IP68 rating is performed 1000mm below the surface of the water for 1 month.</li> <li>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).</li> <li>Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</li> </ol>							







※ IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer. (Can access by removing the rubber stopper on the case.)



※IP68 rated. Cable for I/O connection.

#### ■ Installation Manual

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