





### 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 (Note.10)

# IP65 IP68 (optional) PC CRUS CBCE

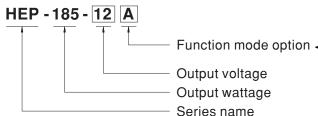
## Applications

- · 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 $^{\circ}$ C and +70 $^{\circ}$ C under free air convection.

# ■ Model Encoding



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

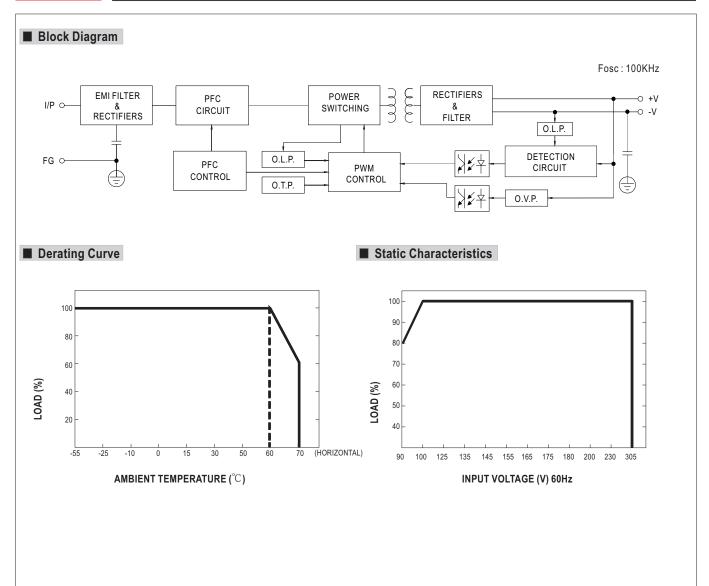
Blank: Optional model, IP68, with fixed Vo and Io level.



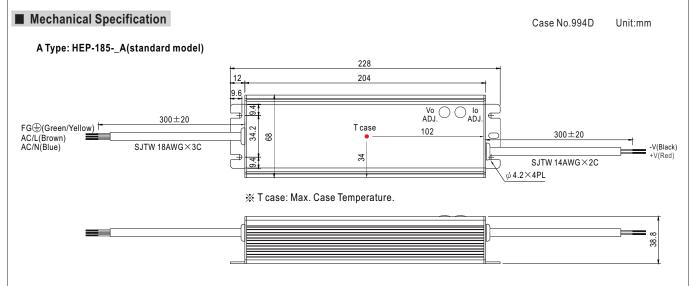
## **SPECIFICATION**

MODEL			HEP-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		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 (Typ.)		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	Shut down o/p volta	ge with auto-recove	ery or re-power on t	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		-60 ~ +80°C, 10 ~ 95% RH					
	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					
	WITHSTAND VOLTAGE		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC					
SAFETY &	SAFETY & ISOLATION RESISTANCE		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
EMC	EMC EMISSION		Compliance to EN55022 (CISPR22) 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					
OTHERS	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	<ol> <li>Ripple &amp; no</li> <li>Tolerance :</li> <li>Derating ma</li> <li>A type only.</li> <li>Safety and</li> <li>Length of se</li> <li>The power swill be operation.</li> </ol>	ise are mea includes set ay be neede EMC design et up time is supply is con ated in coml stallation, the	exicially 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 to up tolerance, line regulation and load regulation.  d under low input voltages. Please check the static characteristics for more details.  refer to 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 boination with final equipment. Since EMC performance will be affected by the set final equipment manufacturers must re-qualify EMC Directive on the complete installation again. The derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft).					

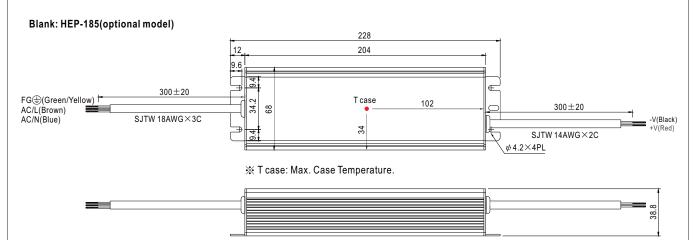








※ IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer. (Can access by removing the rubber stopper on the case.)



#### ■ Installation Manual

Please refer to : http://www.meanwell.com/webnet/search/InstallationSearch.html