







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

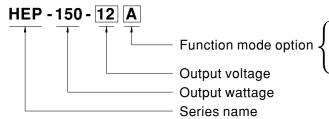
Applications

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

Description

HEP-150 is a 150W 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-150 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.

File Name: HEP-150-SPEC 2018-01-15



SPECIFICATION

MODEL	-	HEP-150-12	HEP-150-15	HEP-150-24	HEP-150-36	HEP-150-48	HEP-150-54
	DC VOLTAGE	12V	15V	24V	36V	48V	54V
OUTPUT	RATED CURRENT	12.5A	10A	6.3A	4.2A	3.2A	2.8A
	RATED POWER	150W	150W	151.2W	151.2W	153.6W	151.2W
	RIPPLE & NOISE (max.) Note.2		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 AD L RANGE	Can be adjusted by internal potentiometer for A type only					
		7.5 ~ 12.5A	6 ~ 10A	3.8 ~ 6.3A	2.5 ~ 4.2A	1.92 ~ 3.2A	1.68 ~ 2.8A
	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 8	at full load		
	EFFICIENCY (Typ.)	91.5%	92%	93%	93.5%	94%	94%
	AC CURRENT (Typ.)	1.7A / 115VAC 0.75A / 230VAC 0.7A / 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					
		14 ~ 17V	18 ~ 21V	28 ~ 34V	41 ~ 46V	54 ~ 63V	59 ~ 65V
	OVER VOLTAGE	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	-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					
	SAFETY STANDARDS Note.6,9						
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC					
SAFETY &	ISOLATION RESISTANCE						
EMC	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level (surge 6KV), criteria A, EAC TP TC 020					
OTHERS	MTBF	164.1K hrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	228*68*38.8mm (L*W*H)					
	PACKING	1.15Kg; 12pcs/14.					
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacito 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltages. Please check the static characteristics for more details. 5. A type only. 6. Safety and EMC design refer to 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. 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).						



