

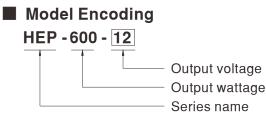


Features

- · Universal AC input / Full range
- Built-in active PFC function
- No load power consumption <0.5W at remote OFF
- · High efficiency up to 96%
- · Fanless design, cooling by free air convection
- Output voltage and output current can be adjusted through internal potentiometer
- · Aluminum case and filling with heat-conducted glue
- -40 ~ +70 $^{\circ}$ C wide operating range
- · Withstand 300VAC surge input for 5 seconds
- Withstand 5G vibration test
- Protections: Short circuit / Over current / Over voltage / Over temperature
- · LED indicator for power on
- 5 years warranty (Note.7)

Description

HEP-600 series is a high-efficiency and waterproof AC-to-DC industrial power supply up to 600W, fully potted by silicone and enclosed with the aluminum case. With state of the art design, HEP-600 works outstandingly with electronics under harsh environment: fan-less, high-vibration, dusty, humid, and oily environment. Remarkable features include supreme efficiency up to 96%, low no-load power consumption (<0.5W) at remote OFF, and wide working temperature ranges between -40°C and +70°C.





Applications

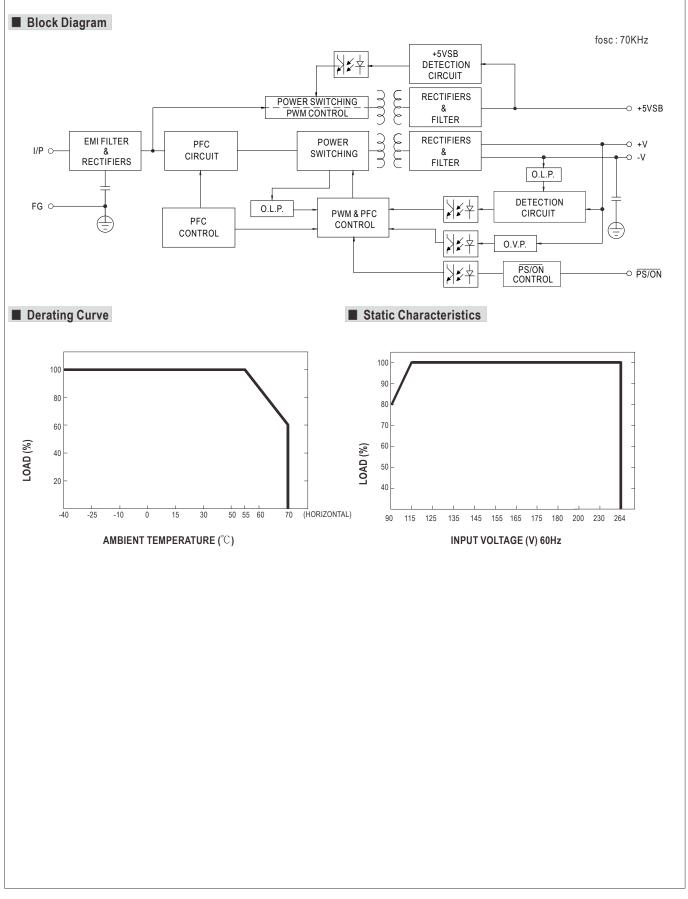
- Humid and dusty industrial environment
- Outdoor telecommunication equipment
- No fan environment
- · Signboard or billboards



SPECIFICATION

MODEL		HEP-600-12	HEP-600-15	HEP-600-20	HEP-600-24	HEP-600-30	HEP-600-36	HEP-600-42	HEP-600-48	HEP-600-54
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
OUTPUT	RATED CURRENT	40A	36A	28A	25A	20A	16.7A	14.3A	12.5A	11.2A
	RATED POWER	480W	540W	560W	600W	600W	601.2W	600.6W	600W	604.8W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p
	VOLTAGE ADJ. RANGE		12.7 ~ 15.8V		20.4 ~ 25.2V	25.5 ~ 31.5V	30.6 ~ 37.8V	35.7 ~ 44.1V		45.9~56.7\
		Can be adjusted by internal potentiometer								
	CURRENT ADJ. RANGE	20~40A	18~36A	14 ~ 28A	12.5 ~ 25A	10 ~ 20A	8.3~16.7A	7.1~14.3A	6.2 ~ 12.5A	5.6 ~ 11.2A
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME Note.5	500ms, 80ms at full load 230VAC /115VAC								
	HOLD UP TIME (Typ.)	15ms at full load 230VAC /115VAC								
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 373VDC								
	FREQUENCY RANGE	47~63Hz								
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.93/277VAC at full load								
	EFFICIENCY (Typ.)	93%	94%	95%	95%	95.5%	95.5%	96%	96%	96%
	AC CURRENT (Typ.)	7A / 115VAC	3.3A/230		A / 277VAC		001070			
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=1000µs measured at 50% Ipeak) at 230VAC								
	LEAKAGE CURRENT	<0.75mA / 240VAC								
PROTECTION	OVER CURRENT									
		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								
	SHOKT CIRCUIT	$\begin{array}{c} \text{Constant current limiting, recovers automatically after fault condition is removed} \\ 13 \sim 16V \\ 16.5 \sim 20.5V \\ 22 \sim 26V \\ 26 \sim 30V \\ 32.5 \sim 36.5V \\ 39.5 \sim 43.5V \\ 46 \sim 50V \\ 52.5 \sim 56.5V \\ 59 \sim 63V \\ \end{array}$								
	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover								
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover								
	REMOTE ON/OFF CONTROL	Power on : "Hi" >2 ~ 5V or Open circuit Power off : "Low" <0 ~ 0.5V or Short circuit								
FUNCTION	5V STANDBY	5Vse : 5V@0.5A ; tolerance ±5%, ripple : 100mVp-p(max.)								
ENVIRONMENT		$-40 \sim +70^{\circ}$ C (Refer to "Derating Curve")								
	WORKING TEMP. WORKING HUMIDITY	20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	-40 ~ +85°C, 10 ~ 95% RH ±0.03%/°C (0 ~ 60°C)								
	VIBRATION SAFETY STANDARDS	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
SAFETY & EMC (Note.6)		UL60950-1, TUV EN60950-1 approved								
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC 0/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 EN55022 (CISPR22) Class B, EN61000-3-2,-3								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, heavy industry level, criteria A								
OTHERS	MTBF	76.9K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	280*144*48.5mm (L*W*H) 3.9Kg; 4pcs/16.6Kg/0.9CUFT								
	PACKING	0.1	•			1.05%0 (
NOTE	 All parameters NOT specia Ripple & noise are measure Tolerance : includes set up Derating may be needed ui Length of set up time is me The power supply is consid complete installation, the fir Refer to warranty statemen 	ed at 20MHz o tolerance, line nder low input asured at cold ered as a com nal equipment	f bandwidth by regulation and voltages. Plea first start. Tur ponent that w	/ using a 12" t d load regulati se check the ning ON/OFF ill be operated	wisted pair-wir on. static characte the power sup in combinatio	e terminated v ristics for more ply may lead t n with final equ	vith a 0.1uf & 4 e details. o increase of t uipment. Since	47uf parallel ca the set up time e EMC perform).	ffected by the







Mechanical Specification Case No. 228A Unit:mm 280 13.4 253.2 8.9 .7] П \oplus \oplus ŝ 1 2 3 97 I/P 4 0/P 9.25 5 44 T case 126.6 6 1.25 lo Vo ADJ. ADJ. 7 ψ4.5×4PL ψ 6×4PL $\bigcirc \bigcirc$ 47 LED 5 \oplus Ð N 268.6 5.7 ※ T case: Max. Case Temperature. 21max. 21max 48.5 X Output voltage and constant current level can be adjusted through internal potentiometer. (Can access by removing the rubber stopper on the case.) AC Input Terminal Pin No. Assignment DC Output Terminal Pin No. Assignment Pin No. Assignment Pin No. Assignment Pin No. Assignment FG 🖶 RC+ 1 1 4,5 -V 2 AC/L 2 RC-& GND 6,7 +V AC/N 3 3 +5Vsb Installation Manual Please refer to : http://www.meanwell.com/webnet/search/InstallationSearch.html