





#### 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			25.5~31.5V	30.6~37.8V	35.7 ~ 44.1V	40.8 ~ 50.4V	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		90 ~ 264VAC 127 ~ 373VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC at full load									
	EFFICIENCY (Typ.)	93%	94%	95%	95%	95.5%	95.5%	96%	96%	96%	
	AC CURRENT (Typ.)	7A / 115VAC	3.3A/230	VAC							
	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									
		13 ~ 16V 16.5 ~ 20.5V 22 ~ 26V 26 ~ 30V 32.5 ~ 36.5V 39.5 ~ 43.5V 46 ~ 50V 52.5 ~ 56.5V 59 ~ 6								59~63V	
	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	5VsB : 5V@0.5A ; tolerance ±5%, ripple : 100mVp-p(max.)									
ENVIRONMENT	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)									
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
SAFETY & EMC (Note.6)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved									
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC 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 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									
	MTBF	76.9K hrs min. MIL-HDBK-217F (25°C)									
OTHERS	DIMENSION	280*144*48.5mm (L*W*H)									
-	PACKING		6.6Kg/0.9CUF	Т							
NOTE	<ol> <li>All parameters NOT specia</li> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>Derating may be needed ui</li> <li>Length of set up time is me</li> <li>The power supply is consid</li> </ol>	neters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. the : includes set up tolerance, line regulation and load regulation. may be needed under low input voltages. Please check the static characteristics for more details. 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. rer supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the bistallation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. warranty statement.									







#### 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 $\psi$ 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