





















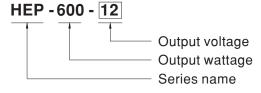
■ Features

- Universal AC input / Full range (up to 305VAC)
- 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
- -40 ~ +70°C wide operating range
- · Aluminum case and filling with heat-conducted glue
- Withstand 10G vibration test
- Output voltage and output current can be adjusted through internal potentiometer
- Protections: Short circuit / Over current / Over voltage / Over temperature
- · LED indicator for power on
- Operating altitude up to 5000 meters (Note.7)
- 6 years warranty

Description

HEP-600 is a 600W 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 96%, enabling HEP-600 perfectly work between -40 $^{\circ}$ C and +70 $^{\circ}$ C under free air convection.

■ Model Encoding



Applications

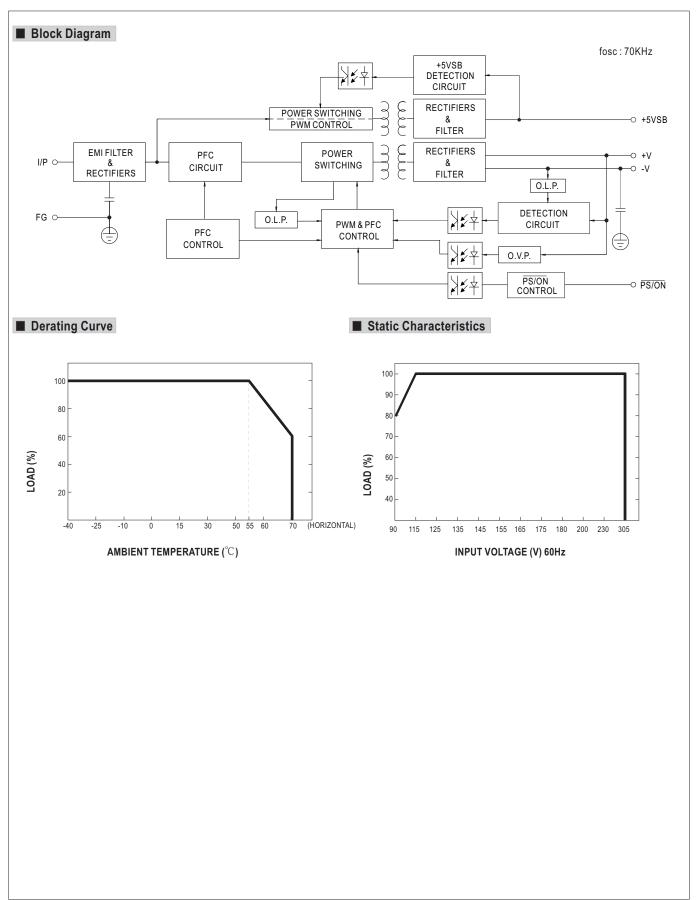
- Outdoor telecommunication equipment
- Outdoor electronic signage and billboard
- · Petroleum plant or mine shaft facility



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
	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	10.2 ~ 12.6V	12.7 ~ 15.8V	17 ~ 21V	20.4 ~ 25.2V	25.5 ~ 31.5V	30.6 ~ 37.8V	35.7 ~ 44.1V	40.8 ~ 50.4V	45.9 ~ 56.7V
CUITRUIT	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer								
OUTPUT		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								
	VOLTAGE RANGE Note.4	85~264VAC(277VAC operational) 120~370VDC(390VDC operational)								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.93/277VAC at full load								
INPUT	EFFICIENCY (Typ.)	93%	94%	95%	95%	95.5%	95.5%	96%	96%	96%
	AC CURRENT (Typ.)	7A / 115VAC	3.3A / 230)VAC 2.9	A / 277VAC					
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=1000µs measured at 50% lpeak) at 230VAC								
	LEAKAGE CURRENT	<0.75mA / 277VAC								
		105 ~ 125%								
	OVER CURRENT	Protection type: Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed								
PROTECTION		13 ~ 16V	16.5 ~ 20.5V		26 ~ 30V		39.5 ~ 43.5V	46 ~ 50V	52.5 ~ 56.5V	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.)								
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")								
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +85°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	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved								
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								
(Note.6)	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020								
	EMC IMMUNITY		•	,	•			120		
	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, heavy industry level, EAC TP TC 020								
OTHERS	DIMENSION	280*144*48.5		(2111 (20 0)						
	PACKING	3.9Kg; 4pcs/1	, ,							
NOTE	All parameters NOT special Ripple & noise are measure Tolerance: includes set up Derating may be needed ur Length of set up time is me The power supply is conside a 360mm*360mm metal pla	pecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. pasured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. et up tolerance, line regulation and load regulation. led under low input voltages. Please check the static characteristics for more details. is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. onsidered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on tal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to sts, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) ure derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).								



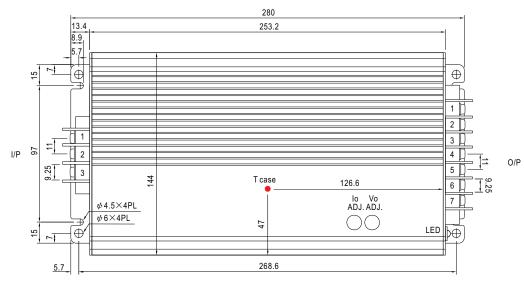




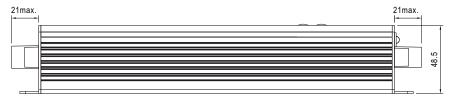
■ Mechanical Specification

Case No. 228A

Unit:mm



 $\frak{\%}$ T case: Max. Case Temperature.



※ 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

Pin No.	Assignment			
1	FG 🖶			
2	AC/L			
3	AC/N			

DC Output Terminal Pin No. Assignment

		0				
Pin No.	Assignment	Pin No.	Assignment			
1	1 RC+		-V			
2	RC- & GND	6,7	+V			
3	+5VsB					

■ Installation Manual

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