





- · 3 stage charging
- Universal AC input / Full range
- · Built-in active PFC function
- · No load power consumption <0.5W at remote OFF
- High efficiency up to 95.5%
- · 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°C wide operating range
- Withstand 300VAC surge input for 5 seconds
- · Withstand 5G vibration test
- Protection: Short circuit / Over voltage / Over temperature
- Charger for lead-acid batteries
- · 3 color LED loading indicator
- 5 years warranty (Note.4)

CBCE

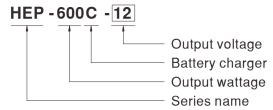
Applications

- Suitable for battery charger at harsh environment
- · Robotic lawn mower
- · Electronic transportation vehicle
- Recreational craft, personal yacht or workboat
- · Security network and system
- Telecommunication base station
- Equipments or instruments with back-up battery

Description

HEP-600C series is an AC-to-DC battery charger providing up to 600W, designed with aluminum case and fully potted by silicone. It features the high efficiency (up to 95.5%), waterproof and low no-load power consumption (<0.5W) at remote OFF. Incorporating state of the art design, the fan-less HEP-600C is capable of working under high-vibration (5G), dusty, humid, and oily environment. Other features include adjustable voltage/current and wide working temperature range (- $40^{-}+70^{\circ}$ C).

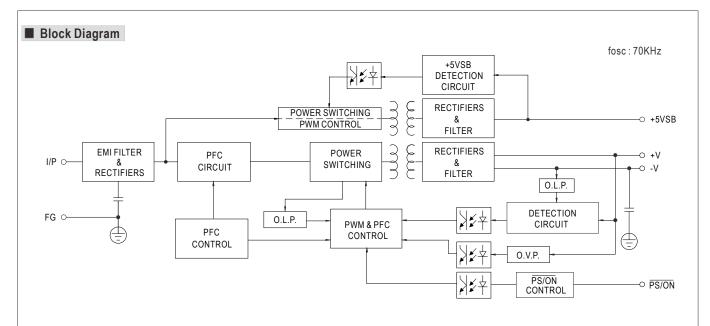
■ Model Encoding



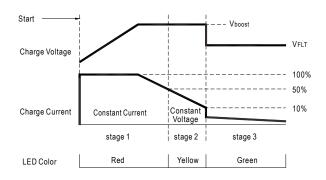
SPECIFICATION

MODEL		HEP-600C-12	HEP-600C-24	HEP-600C-48		
	BOOST CHARGE VOLTAGE	14.4V	28.8V	57.6V		
	FLOAT CHARGE VOLTAGE	13.6V	27.2V	54.4V		
	VOLTAGE ADJ. RANGE	11.5 ~ 15.1V	23 ~ 30.2V	46.1 ~ 60.5V		
OUTDUT	CURRENT ADJ. RANGE	17.5 ~ 35A	10.5 ~ 21A	5.2 ~ 10.5A		
OUTPUT	RECOMMENDED BATTERY CAPACITY(AMP HOURS)(Note 2)	135 ~ 400AH	70 ~ 210AH	35 ~ 105AH		
	BATTERY TYPE	Open & Sealed Lead Acid				
	OUTPUT CURRENT	35A	21A	10.5A		
	VOLTAGE RANGE	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				
INPUT	EFFICIENCY (Typ.)	93.5%	94.5%	95.5%		
	AC CURRENT (Typ.)	7A / 115VAC 3.3A / 230VAC 2.9	A / 277VAC			
	INRUSH CURRENT (Typ.)	COLD START 70A(twidth=1010µs measured at 50% lpeak) at 230VAC				
	LEAKAGE CURRENT	<0.75mA / 240VAC				
		16.5 ~ 20.5V	32.5 ~ 36.5V	68 ~ 73V		
PROTECTION	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				
FUNCTION	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")				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.05%/°C (0~60°C)				
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 72min. each along X, Y, Z axes				
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC 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.3)	EMC EMISSION	Compliance to EN55022 (CISPR22), radiation class A, conduction class B, EN61000-3-2,-3				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A				
	MTBF	73.1K hrs min. MIL-HDBK-217F (25°C)				
OTHERS	DIMENSION	280*144*48.5mm (L*W*H)				
	PACKING	3.9Kg; 4pcs/16.6Kg/0.9CUFT				
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. This is Mean Well's suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. Refer to warranty statement. 					



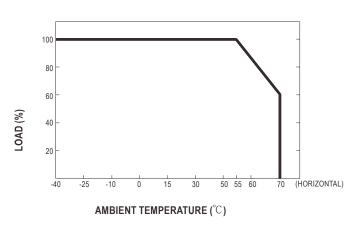


■ Charging Curve

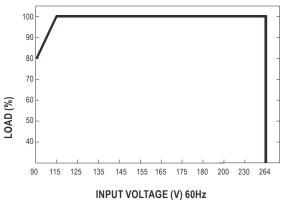


	State	HEP-600C-12	HEP-600C-24	HEP-600C-48
ĺ	Vboost	14.4V	28.8V	57.6V
Ī	VFLT	13.6V	27.2V	54.4V

■ Derating Curve



■ Static Characteristics

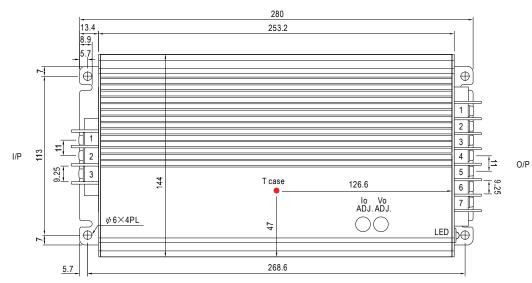




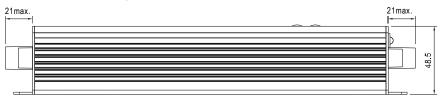
■ Mechanical Specification

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

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	Pin No.	Assignment	Pin No.	Assignment	
	1	RC+	4,5	-V	
	2	RC- & GND	6,7	+V	
	3	+5VsB			

■ Installation Manual

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