



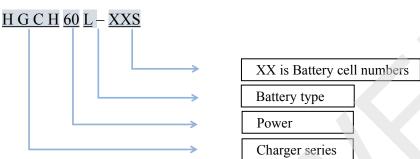
## Features :

- Charger for all kind of Li-ion batteries and lead acid batteries
- Universal AC input, wide range of output voltage and current.
- Protection: Short circuit/Over voltage & Low voltage protection/Over current protection
  /Over temperature protection/Wrong polarity connection protection
- BMS wake up function and precharge function .
- Charging curve setting by software , can be adjustable .
- Working temperature :  $-25^{\circ}C \sim +60^{\circ}C$
- LED indicator for all charging status
- 2 poles AC inlet IEC320-C8
- Meet UL/CE standard
- Fully enclosed desk top plastic case, cooling by free air convection
- 2 years warranty



## Description

HGCH60 is a 60W smart charger , with wide output voltage , build-in MCU to control the charging curve by software , and independent technology to detect the output voltage & current . Smart , universal with wide range ,green with high efficiency , safe and small size are its main features .



## Specification

Note: Output voltage & current can be changed based on different battery . Model number can be changed based on different battery cell numbers .

Model No.		HGCH60L-7S	HGCH60L-108	HGCH60L-14S	HGCH60L-20S			
	DC Voltage	29.4V	42.0V	58.8V	84.0V			
	DC voltage range	15-29.4V	21-42.0V	30-58.8V	42-84.0V			
Output	Max output current	2A	1.4A	1A	0.7A			
	Max output power	58.8W	58.8W	58.8W	58.8W			
	Recommended battery capacity	10Ah-20Ah	10Ah-15Ah	5Ah-10Ah	5Ah-10Ah			
		Normal in Charging : Green blinking						
	LED indicator	Full charged : Green on						
		Fault: Red blinking						
	Voltage range	90~264Vac						
	Frequency range	47~63Hz						
Input	Efficiency	85%	86%	87%	87%			
	AC current	1.2A/115VAC 0.6A/230VAC						
	Inrush current	50A at 230VAC						
	Leakage current	<1mA/240VAC						

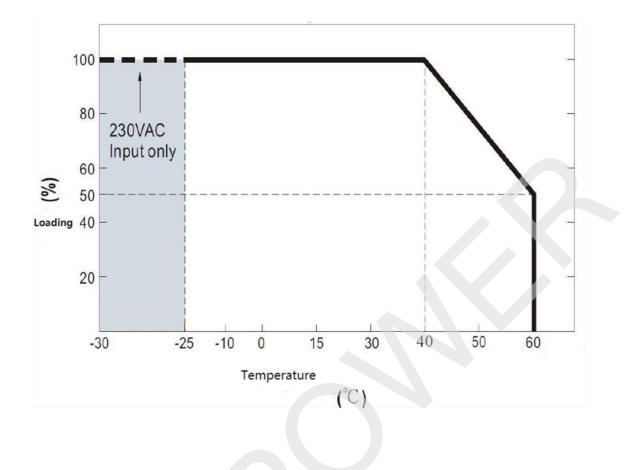
Changzhou HG Power Technology Co.,LTD .

## HGPOWER<sup>®</sup> 60W charger

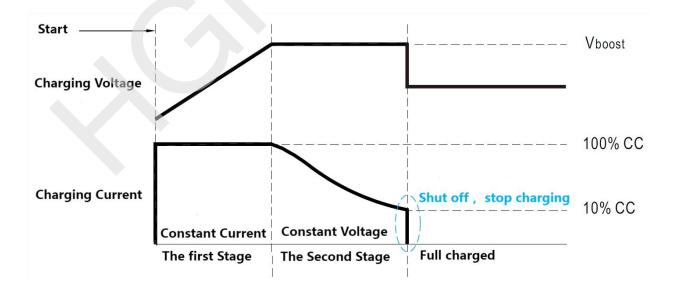
Г

	Short circuit	No output and repeated detection, recovers automatically once fault removed					
Protection	Over Voltage	≥31V	≥44V	≥62V	≥88V		
	Low voltage	Shut down once less than 90% of normal output voltage					
	Over current	Shut down once over 5% of max output current					
	Wrong polarity	No output					
	Over temperature	Shut down , recovers automatically once temperatures was down					
Environment	Working temperature	-25~+60°C(					
	Working humidity	20~90%RH					
	Storage temp., humidity	-40~+85°C, 10~95%RH					
	Vibration	Operating: 5-500Hz 0.5G 15min/2cycles X,Y,Z axes					
		Non operating: 5-500Hz 1G 15min/2cycles X,Y,Z axes					
		Package: 5-500Hz 1.5G 15min/2cycles X,Y,Z axes					
	Max working altitude	10,000 feet					
	Safety standard	UL62368-1, TUV EN62368-1, EAC TP TC 004					
	Withstand voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC					
	Isolation resistance	I/P-O/P,I/P-FG, O/P-FG: 100M Ohms/500VDC/25 °C/70% RH					
	EMC Emission	EN55032(CISPR32)/EN55011(CISPR11) Class B			Class B		
		EN55032(CISPR32)/EN55011(CISPR11) Class A					
	EMC Immunity	EN55024, EN61204-3, EN61000-6-2					
		ESD	EN61000-4-2	Level3,8KV air;			
Safety &				Level 2,4KV contact			
EMC		Radiated	EN61000-4-3	Level 3			
-		EFT/Burst	EN61000-4-4	Level 3			
		Surge	EN61000-6-2	2KV/line-line 4KV/Line-Earth			
		Conducted	EN61000-4-6		Level 3		
		Magnetic Field	EN61000-4-8	Level 4			
		Voltage Dips		>95%dip periods,30% dip 25			
		and	EN61000-4-11		% of periods, 30% of periods 95% interruptions 250 periods		
		Interruptions		perious, >	3576 merruptions 250 periods		
Others	MTBF	>250000h(25 °C)					
	Dimension	130*65*37mm(L*W*H)					
	DC plug & cable	Available by customer requested					

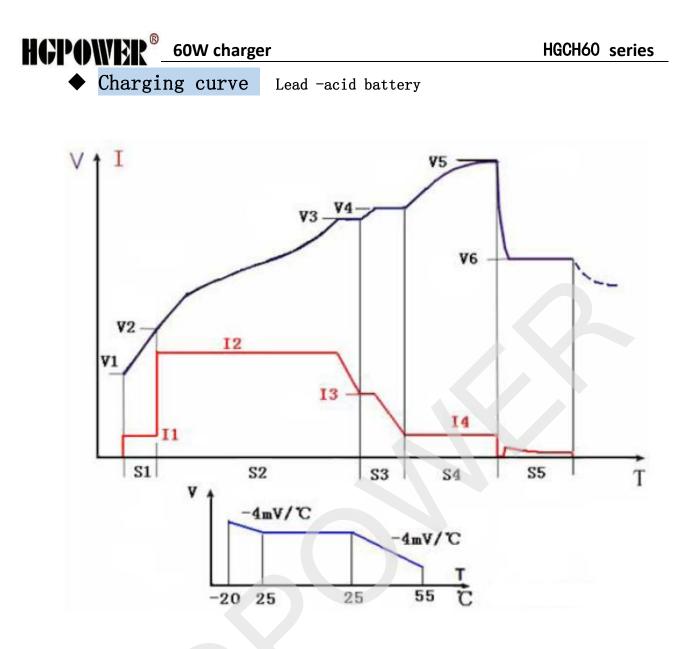




Charging curve Li-on battery CC/CV mode



Changzhou HG Power Technology Co., LTD .



Mechanical Specification

