



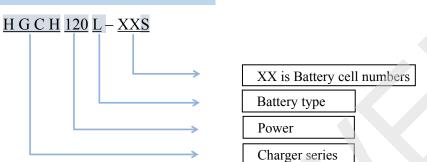
Features :

- 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

HGPOWER[®] 120W charger

Description

HGCH120 is a 120W 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 .



Specifications

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

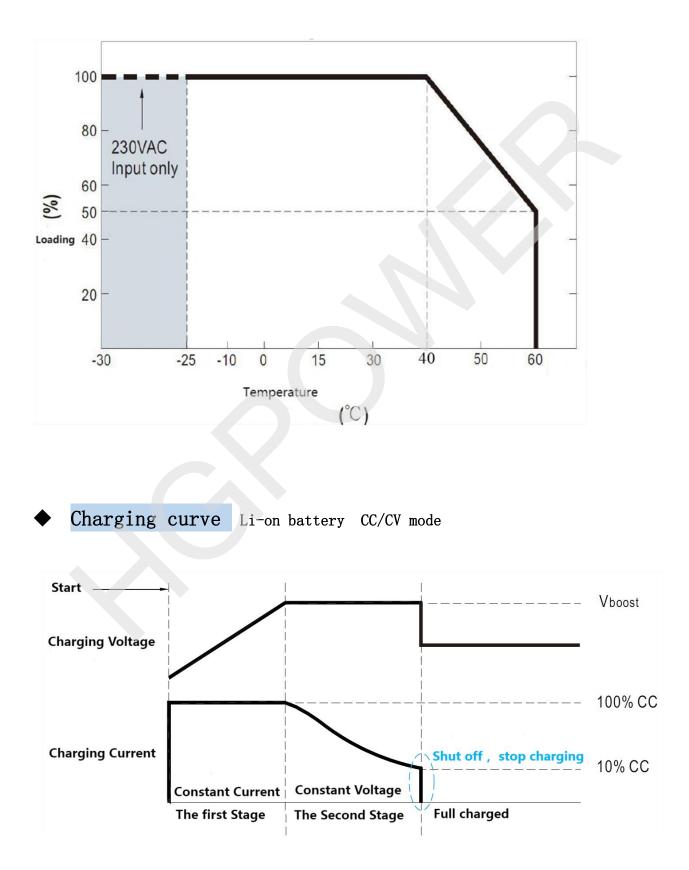
	Model No.	HGCH120L-68	HGCH120L-108	HGCH120L-14S	HGCH120L-20S		
	DC Voltage	25.2V	42.0V	58.8V	84.0V		
	DC voltage range	15-25.2V	21-42.0V	30-58.8V	42-84.0V		
	Max output current	4.5A	2.8A	2A	1.4A		
Output	Max output power	113.4W	117.6W	117.6W	117.6W		
	Recommended battery capacity	30Ah-50Ah	10Ah-30Ah	5Ah-20Ah	10Ah-20Ah		
			Normal in Charging :Green blinking				
	LED indicator	Full charged : Green on Fault: Red blinking					
	Voltage range	90~264Vac					
	Frequency range	47~63Hz					
Input	Power factor	PF>0.98/115Vac,PF>0.95/230Vac(Full load)					
	Efficiency	88%	90%	90%	91%		
	AC current	2A/115VAC 1A/230VAC					
	Inrush current	50A at 230VAC					
	Leakage current	<1mA/240VAC					

HGPOWER[®] 120W charger

Protection	Short circuit	No output and repeated detection, recovers automatically once fault removed					
	Over Voltage	≥27V	≥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 temperature	40 19222 10 020/101					
	&humidity	-40~+85°C, 10~95%RH					
		Operating: 5-500Hz 0.5G 15min/2cycles X,Y,Z axes					
	Vibration	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			Class B		
		EN55032(CISPR32)/EN55011(CISPR11)			Class A		
		EN55024, EN61204-3, EN61000-6-2					
	EMC Immunity	ESD	EN61000-4-2	Level3,8KV air;			
Safety &		ESD		Level 2,4KV contact			
EMC		Radiated	EN61000-4-3		Level 3		
ENIC		EFT/Burst	EN61000-4-4		Level 3		
		Surge	EN61000-6-2	2KV/line-	2KV/line-line 4KV/Line-Earth		
		Conducted	EN61000-4-6		Level 3		
		Magnetic	EN61000-4-8	Level 4			
		Field					
		Voltage Dips		>95%dip periods,30% dip 25 periods, >95% interruptions 250 periods			
		and	EN61000-4-11				
		Interruptions					
	Safety standard	UL62368-1, TUV EN62368-1, EAC TP TC 004					
Safety &	Withstand voltage	I/P-O/P :3KVAC I/P-FG :1.5KVAC O/P-FG:0.5KVAC					
EMC	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					
Others	MTBF	>200000h(25 °C)					
	Dimension	173*76*38mm(L*W*H)					
	DC plug & cable	Available by customer requested					

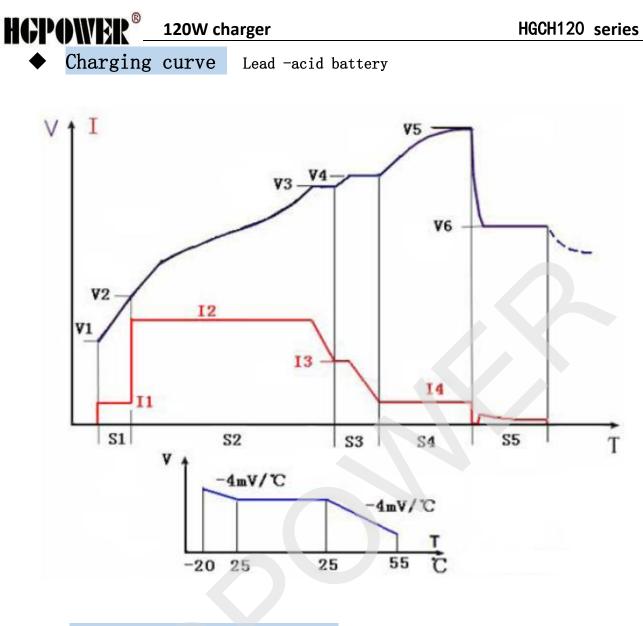


Derating Curve



Changzhou HG Power Technology Co., LTD .

www.hgpower.com



Mechanical Specification

