



◆ Features :

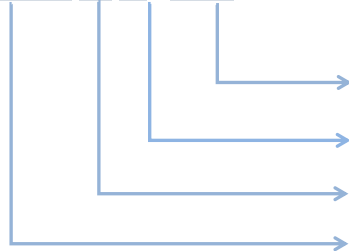
- Charger for all kind of Li-ion batteries and lead acid batteries
- Universal AC input , wide range of output voltage and current .
- Protection: Short circuit/Over voltage & Low voltage protection/Over current protection
/Over temperature protection/Wrong polarity connection protection
- BMS wake up function and precharge function .
- Charging curve setting by software , can be adjustable .
- Working temperature : -25°C ~+60°C
- LED indicator for all charging status
- Wall mount with changeable AC plug
- Meet UL/CE standard
- Cooling by free air convection
- 2 years warranty

◆ Description

HGCH30 is a 30W 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 .

◆ Product model number

H G C H 30 L - XXS



- XX is Battery cell numbers
- Battery type
- Power
- Charger series

◆ Specification

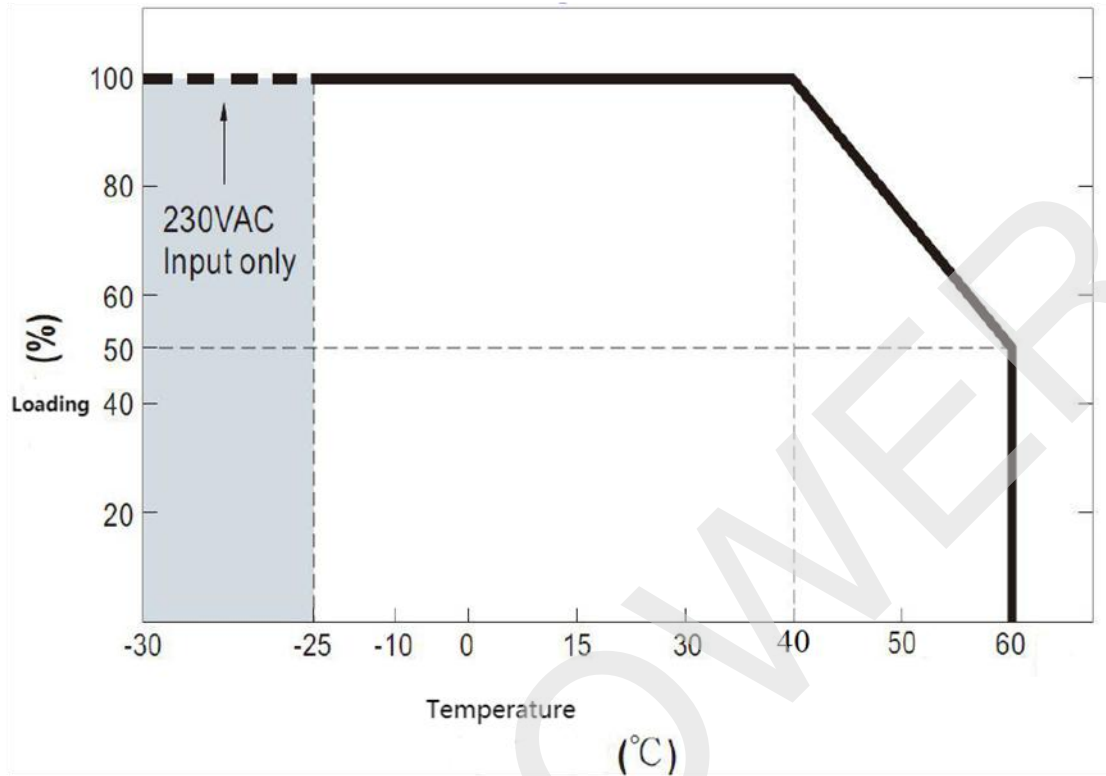
Note : Output voltage & current can be changed based on different battery .

Model number can be changed based on different battery cell numbers .

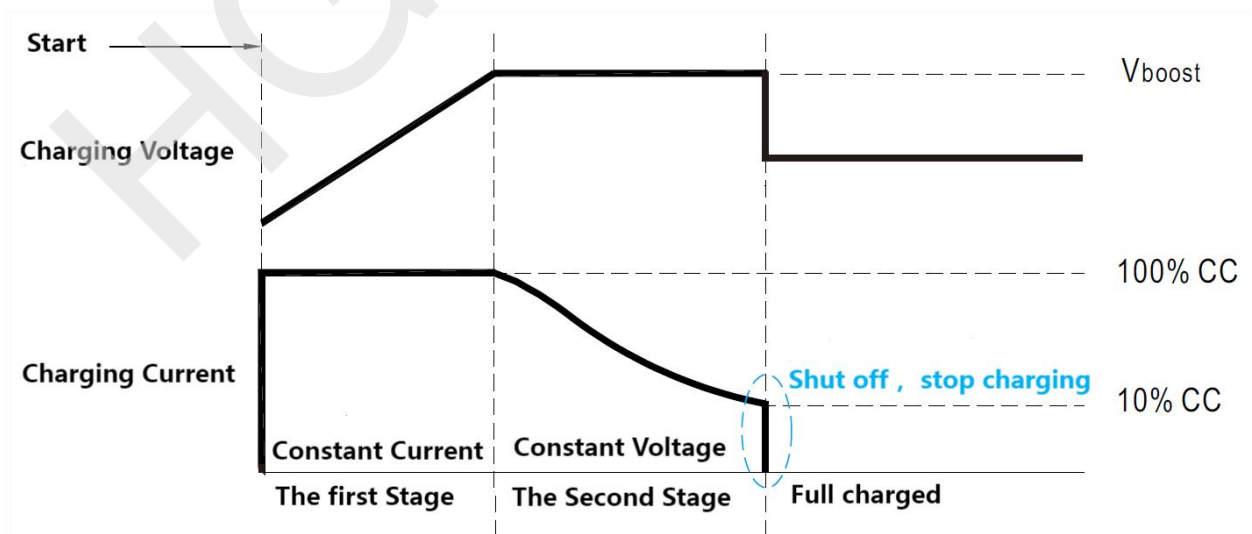
Model No.		HGCH30L-3S	HGCH30L-5S	HGCH30L-7S	HGCH30L-10S
Output	DC Voltage	12. 6V	21. 0V	29. 4V	42. 0V
	DC voltage range	8-12. 6V	12-21. 0V	20-29. 4V	25-42. 0V
	Max output current	2A	1. 5A	1A	0. 7A
	Max output power	25. 2W	31. 5W	29. 4W	29. 4W
	Recommended battery capacity	10Ah-20Ah	5Ah-15Ah	2Ah-10Ah	1Ah-5Ah
	LED indicator	Normal in Charging : Green blinking			
	Full charged : Green on				
	Fault: Red blinking				
Input	Voltage range	90~264Vac			
	Frequency range	47~63Hz			
	Efficiency	80%	81%	82%	84%
	AC current	0.8A/115VAC 0.4A/230VAC			
	Inrush current	50A at 230VAC			
	Leakage current	<1mA/240VAC			

Protection	Short circuit	No output and repeated detection, recovers automatically once fault removed			
	Over Voltage	≥14V	≥23V	≥31V	≥44V
	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℃ (
	Working humidity	20~90%RH			
	Storage temp., humidity	-40~+85℃ , 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 & EMC	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	
		EN55032(CISPR32)/EN55011(CISPR11)		Class A	
	EMC Immunity	EN55024, EN61204-3, EN61000-6-2			
		ESD	EN61000-4-2	Level3,8KV air; Level 2,4KV contact	
		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 and Interruptions	EN61000-4-11	>95%dip periods,30% dip 25 periods, >95% interruptions 250 periods	
Others	MTBF	>250000h(25 °C)			
	Dimension	91*60*35mm(L*W*H)			
	DC plug & cable	Available by customer requested			

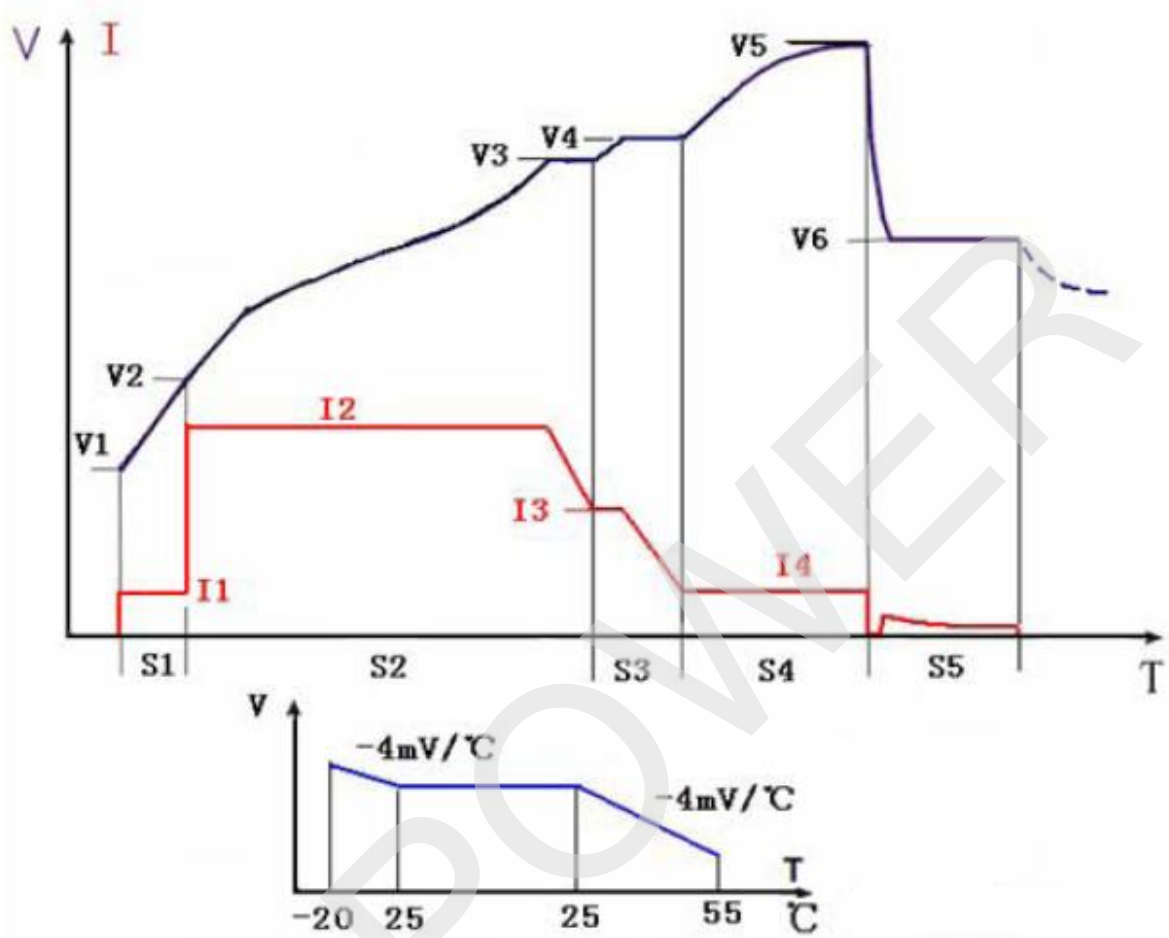
◆ Derating Curve



◆ Charging curve Li-on battery CC/CV mode



◆ **Charging curve** Lead-acid battery



◆ **Mechanical Specification**

