

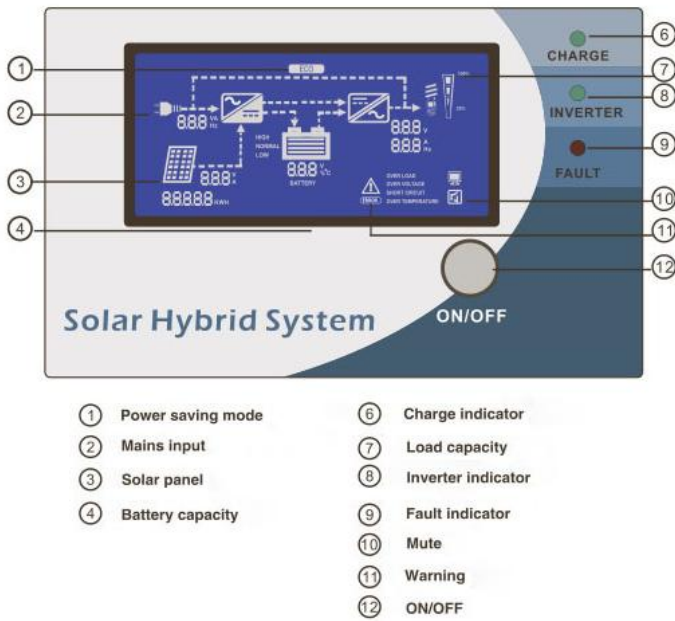
## LG-H Series Solar Integrated Machine



### Features

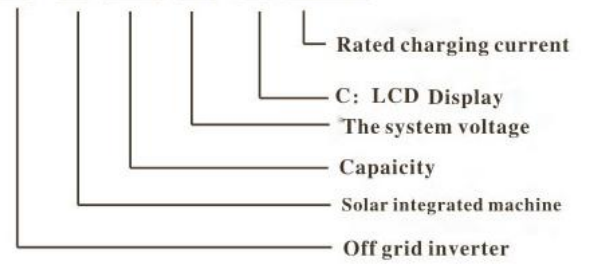
- PWM technology and industrial design;
- Pure sine wave output, high INV efficiency;
- LCD display help you to know about the system working condition easily;
- Function for calculate the solar gross generation;
- Protection for over-charge, over dis-charge, overload, short circuit, low and high input voltage, over-heat;
- Input L and N reversed protection;
- Switch for choosing the solar input priority or main input priority;

## Display

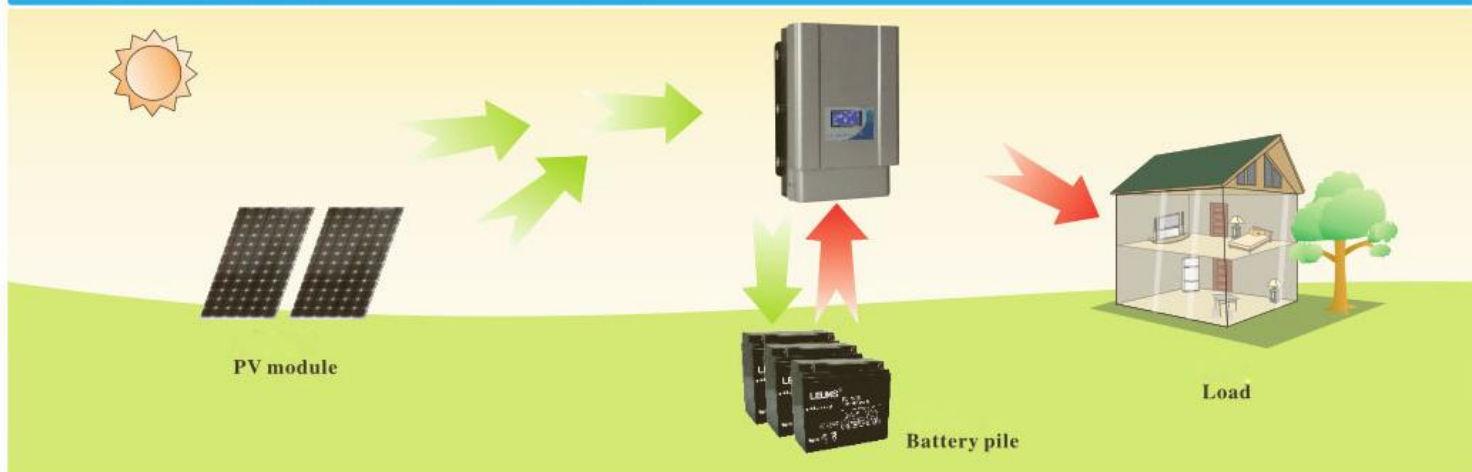


## Model explain

**LG -H 301 01 C 0-7A**



## Charge controller graph



## Specification

Model	LG-H30101C0-70A	LG-H60101C0-70A	LG-H10202C0-70A	LG-H20204C0-70A	LG-H30204C0-70A
Rated capacity(W)	300W	600W	1000W	2000W	3000W
Battery input parameters					
Battery rated input voltage (VDC)	12VDC		24VDC		48VDC
Inverter off voltage of battery over-voltage protection (VDC)	15.75VDC		31.5VDC		63VDC
Inverter closing voltage of battery over-voltage protection (VDC)	15.25VDC		30.5VDC		61VDC

Recover voltage of battery over-voltage protection (VDC)	14VDC	28VDC	56VDC
Inverter off voltage of battery low-voltage protection (VDC)	10.75VDC	21.5VDC	43VDC
Recovery voltage of battery low-voltage protection (VDC)	13.2VDC	26.4VDC	52.8VDC
Off voltage of battery low-voltage protection (VDC)	10VDC	20VDC	40VDC
Solar panel input parameters			
Solar energy input voltage range	15~21VDC	30~42VDC	60~84VDC
Solar charging current	0-70A		
Solar panel charging cut-off voltage	13.8-14.4VDC	27.6-28.8VDC	55.2-57.6VDC
The mains input parameters			
Input voltage range	165-265VAC		
AVR range	165-265VAC		
Transfer time	≤10ms		
Charge current in mains	10-15A	8-12A	4-6A
Charge voltage in mains	Automatically change to solar and battery working model when the charging voltage in mains reaches 13.8VxN(Number of battery cells) ; Automatically change to solar charging model when the charging voltage in mains reaches 14.5VxN;		
The inverter output parameters			
Output voltage	220VAC ±5%		
Output frequency difference (Battery mode)	50 ±0.5Hz		
Output waveform	Pure Sine Wave		
Distortion of THD	≤ 5%		
INV efficiency in Linear Load	85%		
Noise	≤ 50dB		
Load peak ratio	3:1 (Max)		
Overload capacity	When the load exceed 120%, automatically re-starts protection after 60s; When the load exceed 150%, automatically re-starts protection after 10s; When the load exceed 200%, automatically re-starts protection after 200ms;		
Protection function	Input overvoltage, undervoltage protection, overload protection, over temperature protection, short circuit;		
DC starting function	You can start without mains		
Short circuit	Close the inverter immediately		
Battery Type	Lead acid battery		
Battery capacity	Battery connected external according to the user required backup time		

Physical properties		
Cooling model	Air cooling	
Working temperature	-15°C - 40°C	
Storage temperature	-25°C - 55°C	
Altitude	When altitude is more than 1500m, the system should be worked in under rated capacity	
Size (L*W*H)mm	390*290*122	457*293*176