

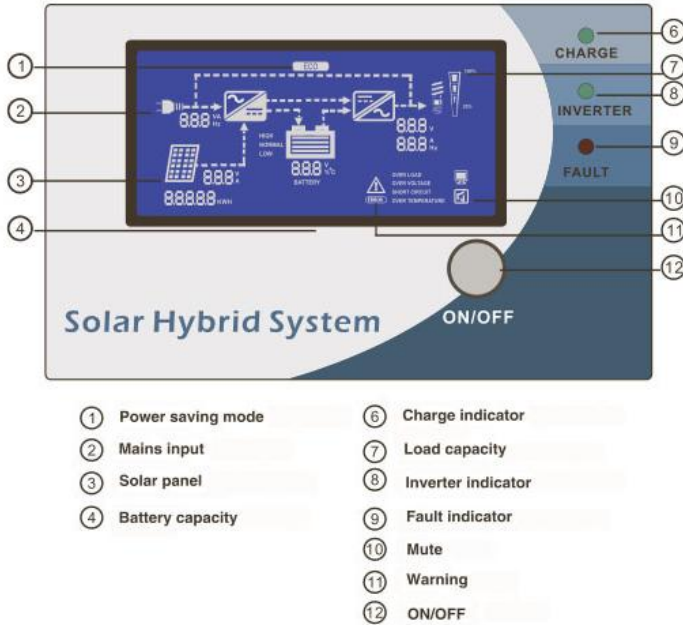
## LG-G Series Low Frequency Solar Integrated Machine



### Features

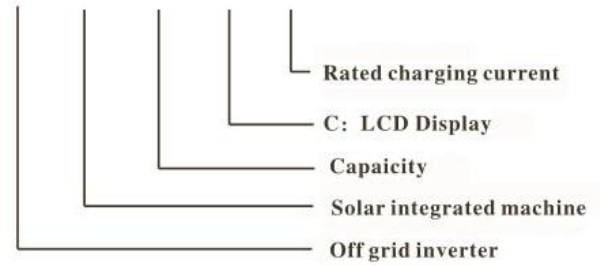
- PWM technology and industrial design;
- Pure sine wave output, high INV efficiency;
- LCD display help you to know about the system working condition easily;
- Function for calculate the solar gross generation;
- Protection for over-charge, over dis-charge, overload, short circuit, low and high input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

## Display

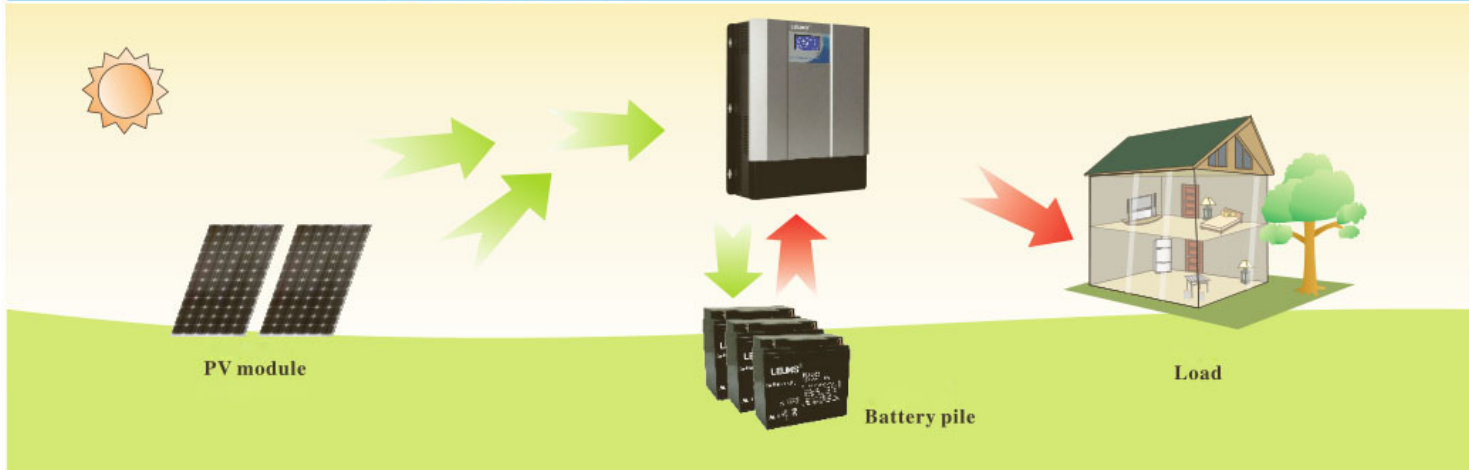


## Model explain

**LG -G 1200 C 0-70A1**



## Charge controller graph



## Specification

Model	LG-G6010 1C0-70A	LG-G1020 2C0-70A	LG-G1220 2C0-70A	LG-G1520 4C0-70A	LG-G1820 4C0-70A	LG-G2020 4C0-70A	LG-G302 04C0-70A	LG-G50204 C0-70A
Rated capacity (W)	600W	1000W	1200W	1500W	1800W	2000W	3000W	5000W
Battery input parameters								
Battery rated input voltage (VDC)	12VDC	24VDC	24VDC/48VDC				48VDC	
Inverter off voltage of battery over-voltage protection (VDC)	15.75VDC	31.5VDC	31.5VDC/63VDC				63VDC	

Inverter closing voltage of battery over-voltage protection (VDC)	15.25VDC	30.5VDC	30.5VDC/61VDC	61VDC
Recover voltage of battery over-voltage protection (VDC)	14VDC	28VDC	28VDC/56VDC	56VDC
Inverter off voltage of battery low-voltage protection (VDC)	10.75VDC	21.5VDC	21.5VDC/43VDC	43VDC
Recovery voltage of battery low-voltage protection (VDC)	13.2VDC	26.4VDC	26.4VDC/52.8VDC	52.8VDC
Off voltage of battery low-voltage protection (VDC)	10VDC	20VDC	20VDC/40VDC	40VDC
Solar panel input parameters				
Solar energy input voltage range	15~21VDC	30~42VDC	30~42VDC/60~84VDC	60~84VDC
Solar charging current	0-70A			
Solar panel charging cut-off voltage	13.8-14.4V DC	27.6-28.8V DC	27.6-28.8VDC/55.2-57.6VDC	55.2-57.6VDC
The mains input parameters				
Input voltage range	145V-280VAC			165-265VAC
Input frequency range	45-70Hz			
AVR range	220V±10%			165-265VAC
Transfer time	≤10ms			
Charge current in mains	15A Or not need the charging function			
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%			
Inverter efficiency	≤ 3%		≤ 2%	
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, under voltage 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		
Relative Humidity	0-95% No condensation		
Altitude	When altitude is more than 1500m, the system should be worked in under rated capacity		
Size (L*W*H)mm	392*370*112	492*430*142	543*505*174