

Smart Grid-tied Solar Inverter



Solar Inverter Revolution



SC-GS

Smart Grid-tied Solar Inverter



ON GRID

+

OFF GRID

+

GRID-TIED

Three Functions In One Machine

Smart grid-tied solar inverter is flexible and smart hybrid solar inverter which on grid, off grid ,grid-tied functions are in one machine. Solar power ,AC utility and battery power supply continuous power. Feed-in to grid is not only choice and power backup when AC failed.

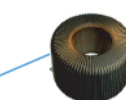
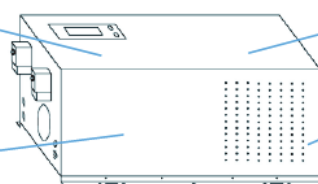
Features:

- Unique design toroidal transformer, pure sine wave output
- CPU management, intelligent control, modular design, LCD display
- Smart frequency with best programming design, high stability
- Grid-tied inverter with backup energy storage
- Easy to install and configure a solar system
- Built-in MPPT solar controller, high charging efficiency
- Low power consumption, high conversion efficiency

Three functions effected
in one MCU PCB

Self-developed design of
PCB and Programming

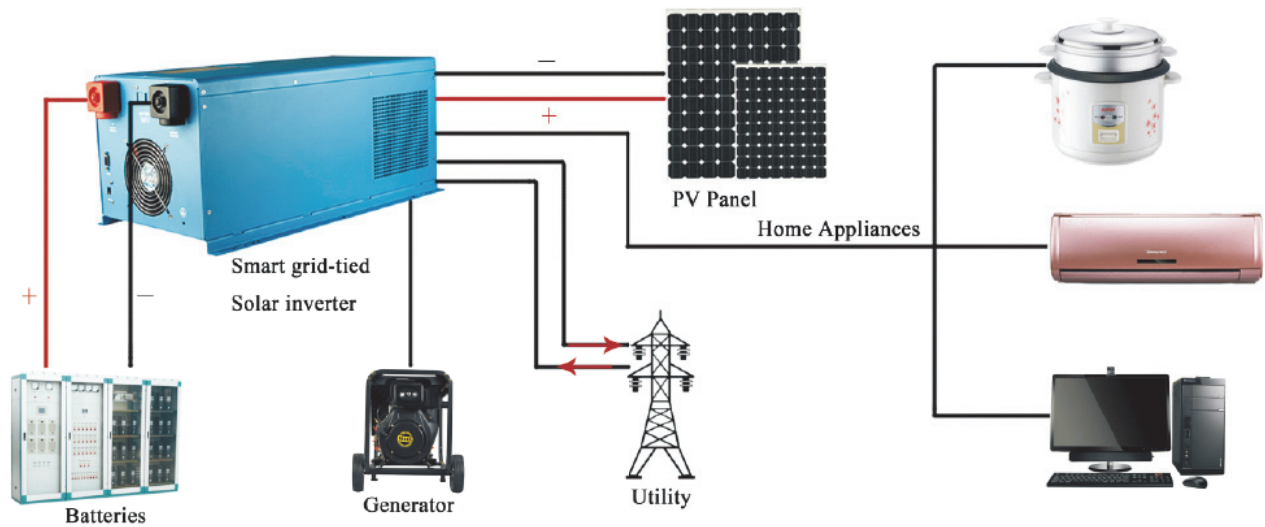
Safe and high efficiency



Toroidal Transformer
-Smart Frequency

We only produce high quality products

Smart Grid-tied Solar Inverter Connection



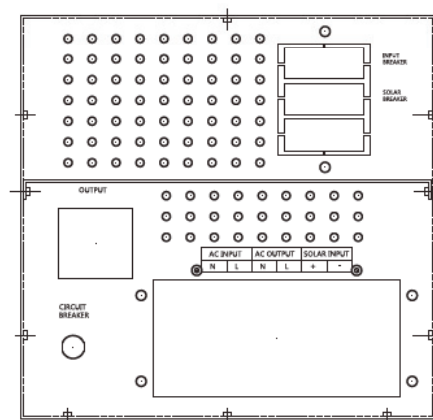
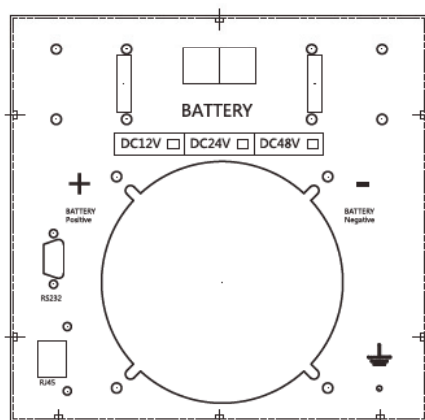
Big screen display



Normal LCD display



Panel



SC-GS

Smart Grid-tied Solar Inverter

Parameter								
Series	1000VA	1500VA	2000VA	3000VA	4000VA	5000VVA	8000VA	10KVA
Rate Output Power	800W	1200W	1600W	2400W	3200W	4000W	6400W	8000W
Surge Power	2400W	3600W	4800W	7200W	9600W	12KW	19.2KW	24KW
Output-(AC Load&Grid-tied)								
Output Wave Type	Pure sine wave output, Total Harmonic Distortion THD \leq 3%							
Voltage	220V \pm 3% or 230V \pm 3% or 110V \pm 3%							
AC Output	50Hz \pm 0.5 or 60Hz \pm 0.5							
Output Power(Feed to Grid and Load)	800W	1200W	1600W	2400W	3200W	4000W	6400W	8000W
Ground Wire	Yes							
Islanding Protection	Yes							
Conversion Efficiency	85%-92%(standard materials) or 92%-97%(special materials)							
Capable of Starting Motor	500W	800W	1000W	1600W	2100W	2600W	4200W	5300W
Power Consumption	\leq 1A							
Overload	> 120% 1min, > 130% 10s							
Working Mode								
Grid-tied/On-Grid/Off-grid	Auto running; Manual-switch by button; Priority order can be customized by software							
Output-backup(charging)								
Charge Mode Setting		PV charge						
		PV charge+Utility charge						
		Adaptive constant hybrid charging current (combination of MPPT +AC)						
MPPT Solar Controller	Voltage	12V/24V(optional)			24V/48V(optional)		48V/96V/192V(optional)	
	Current	20A	30A	50A				
Utility	AC Charge	Continuous charge current 1~50A(adjustable by button on display)						
	Voltage	220V \pm 3% or 230V \pm 3% or 110V \pm 3%						
	Frequency	50Hz \pm 0.5 or 60Hz \pm 0.5						
Input (PV, Grid, Battery)								
Max PV Input Voltage	72V/144V					144V/220V/460V		
Battery Voltage	12V/24V(optional)			24V/48V(optional)		48V/96V/192V(optional)		
PV Charge Efficiency(MPPT)	95%~99%							
AC Input	145V~275V or 72V~137V				50Hz or 60Hz			
Automatic Voltage Regulator	Yes(AVR)							
General Parameter								
Auto Bypass	Customized				Yes			
Display Information	Input voltage, output voltage, output frequency, battery capacity, load condition, status information							
Protections	Overload, Short-circuit, High-voltage input, Low-voltage input, Overheat&islanding							
Communication Port	RS232/USB							
Humidity	0~90% relative humidity(non-condensing)							
Noise	Low noise <45db							
Size: W*D*H	418*208*193.2		458*210*216				542.5*294*240.7	
Net Weight	13	15	17	19	21	24	32	39
The specification is only for reference. Subject to change without prior notice.								