

Solar high frequency inverter

Series 2000W-5000W



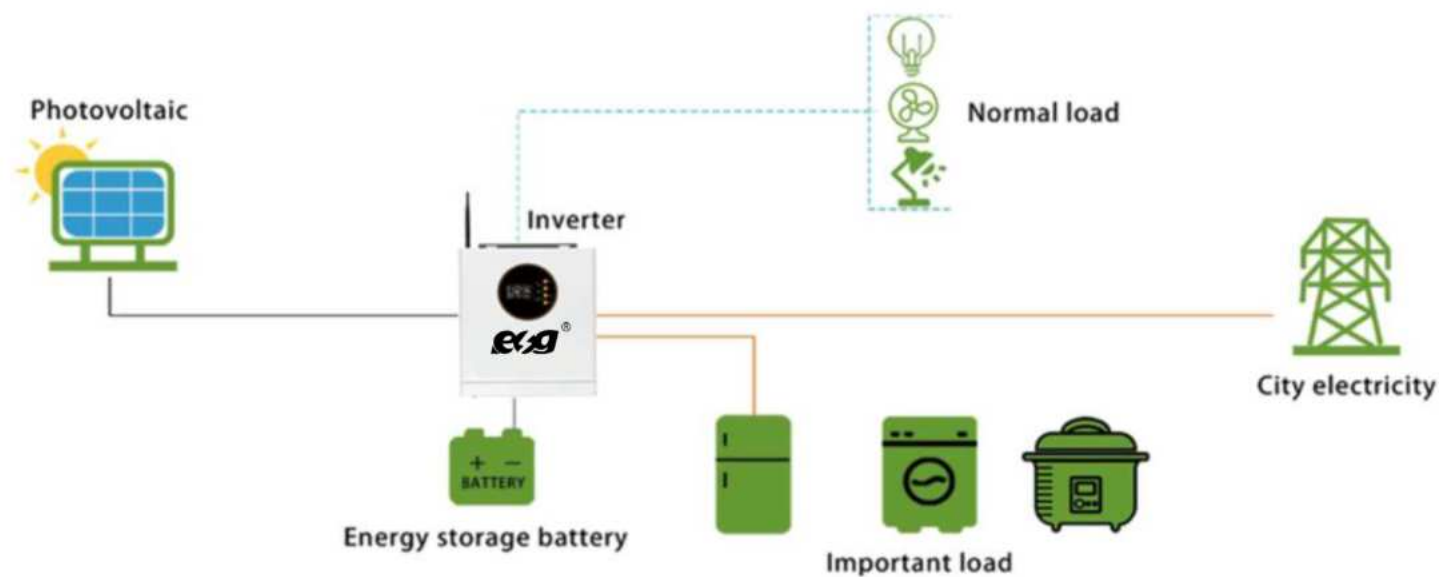
Product features

1. Pure sine wave ac output, complementary to the mains, automatic cutting, mains charging;
2. Utility mode/Eco mode/Battery mode optional(Flexible application);
3. Charging type/Battery type /Lithium Battery optional(Convenient utility)
4. Smart Fan Control(Safe reliable);
5. LCD real-time display the parameters of the equipment(Running status be clear at glance);
6. Output overload/Short circuit protection/Over-temperature
7. Can choose single inverter/photovoltaic inverter control machine;
8. Battery level protection, battery voltage automatic back to normal after the voltage output, truly unattended function.

Inverter applications

1. Independent household type household photovoltaic power generation systems, wind power generation system, wind-light complementary system, UPS power supply system.
2. Communication base station system, highway intelligent monitoring system.
3. Outdoor advertising, government demonstration project, landscape lighting engineering.
4. Island fishing boat, remote mountainous areas, border posts and other photovoltaic power generation systems.

Solar System Connection



Technical Specifications:

Model number	2KW	3KW	5KW
Rated Output Power	2KW	3KW	5KW
Output Voltage Waveform	正弦波		
Output Voltage Regulation	230Vac ± 5%		
Output Frequency	50Hz		
Peak Efficiency	94%		
Overload Protection	5s@≥150% load; 10s@110%~150% load		
Surge Capacity	2* rated power for 5 seconds		
Nominal DC Input Voltage	24Vdc		48Vdc
Cold Start Voltage	23.0Vdc		46.0Vdc
Low DC Warning Voltage	23.0Vdc		46.0Vdc
@ load < 50%	22.0Vdc		44.0Vdc
@ load ≥ 50%	23.5Vdc		47.0Vdc
	23.0Vdc		46.0Vdc
Low DC Warning Return Voltage	21.5Vdc		43.0Vdc
@ load < 50%	21.0Vdc		42.0Vdc
@ load ≥ 50%	32Vdc		62Vdc
	33Vdc		63Vdc
	<30W		<40W
Model number	2KW	3KW	5KW
Input voltage waveform	Sine wave (mains/generator)		
Nominal Input Voltage	230Vac		
Low Loss Voltage	170Vac ± 7V (UPS); 90Vac ± 7V (Appliances)		
Low Loss Return Voltage	180Vac ± 7V (UPS); 100Vac ± 7V (Appliances)		
High Loss Voltage	280Vac ± 7V		
High Loss Return Voltage	270Vac ± 7V		
Max AC Input Voltage	300Vac		
Nominal Input Frequency	50Hz / 60Hz (Auto detection)		
Low Loss Frequency	40 ± 1Hz		
Low Loss Return Frequency	42 ± 1Hz		
High Loss Frequency	65 ± 1Hz		
High Loss Return Frequency	63 ± 1Hz		
Output Short Circuit Protection	Circuit Breaker		
Efficiency (Line Mode)	>95% (Rated R load, battery full charged)		
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)		
Mains charging mode			
Model number	2KW	3KW	5KW
Charging mode	3 段式		
Maximum AC charging current (Max)	80Amp (@VI/P=230Vac)		60Amp (@VI/P=230Vac)
Maximum charging voltage	Flooded batteries		29.2
	AGM separator lead-acid battery /Gel silica sol lead-acid battery		28.2
			58.4
			56.4
Floating charge voltage	27Vdc		54Vdc
MPPT solar charging mode			
Model number	2KW	3KW	5KW
Maximum solar power	3000W	4000W	6000W
Solar MPPT voltage range	120-450VDC		
Maximum open circuit voltage of solar energy	495VDC		
Maximum charging current	80AMP		
Model number	2KW	3KW	5KW
Operating temperature range	-10℃ to 50℃		
Storage temperature	-15℃ ~ 60℃		
Humidity	5%~95% relative humidity (no condensation)		
Size: Length, width and height mm	260*111.2*368	309*116.2*366.8	309*116.2*427.8