

ES Solar On/Off Grid Energy Storage Inverter

Product Description

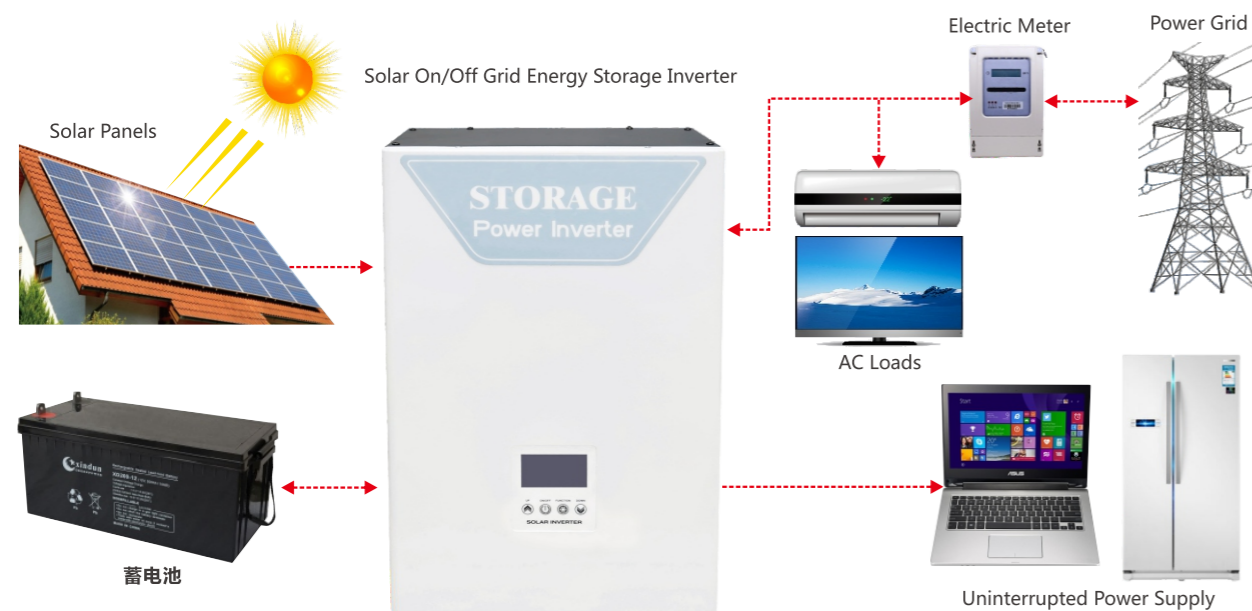
Solar On/Off grid energy storage inverter applied to solar energy storage micro-grid system, The system uses PV energy as priority. When the energy of PV is not enough, it can be supplemented by city power or batteries. When the PV energy is surplus, the battery is stored or accessed on the grid to maximize the utilization of PV power generation, so as to achieve the purpose of self-use and extra power consumption. In addition, according to different customer's requirements, peak and valley time periods can be set up to achieve peak-to-peak and valley-filling, reduce grid pressure, and maximize revenue. The system can compatible with lead-acid batteries and lithium batteries. In the event of a power grid failure, solar energy can continue to generate electricity and switch to off-grid mode to continue to supply power to the load.



Feature

- Integrated intelligent energy management system, a variety of modes can be set;
- Cut peaks and fill valleys to reduce grid pressure and maximize profits;
- Dual MPPT input, precise algorithm, efficient use of PV energy;
- Supports multiple parallel operations for user expansion;
- 3-stage/2-stage charging technology to protect battery life;
- Two-way energy storage design, PV, mains can charge the battery;
- Support multiple remote monitoring of communication software (RS232\RS485\Mobile APP\SNMP\GSM).

System Application Diagram



Technical Parameters

Model: ES		3KW	5KW
PV Input	Max input voltage	150V	
	MPPT tracking range	60V~120V	
	MPPT route number	2	
	Max input power	1750W/1750W	2750W/2750W
Battery	Type of battery	Lead-acid battery / Lithium-ion battery	
	Rated voltage	48V	
	Max charging current	60A(PV)/10A (Mains) Adjustable charging current	100A(PV)/20A (Mains) Adjustable charging current
	Float voltage	55.2V	
	Charge voltage	56.8V	
	Charging method	3-stage/2-stage	
AC Input	Rated voltage	220V/230V	
	Input voltage range	176V~264V	
	Rated input frequency	50Hz/60Hz	
AC output (off grid mode)	Rated output power	3KW	5KW
	Rated output voltage	220V/230V	
	Output voltage accuracy	±2%	
	Rated output frequency	50Hz/60Hz (Auto recognition)	
	Output frequency accuracy	±1%	
AC output (on grid mode)	Rated output power	3KW	5KW
	Rated output current	13.6A	22.7A
	Output voltage	176V~264V	
	Output frequency	47~52Hz/57~62 Hz	
	Power Factor	> 0.99 (Rated power)	
Protection	Output short circuit	YES	
	Over load	YES	
	Over-voltage/under-voltage	YES	
	Over-frequency/under-frequency	YES	
	Over temperature	YES	
	Island protection	YES	
	Regular Parameter	Topology	Transformer isolation
Display		LCD	
Ambient temperature		-20°C~60°C (Derating above 45°C)	
Relative humidity		0%~95% (No condensation)	
Highest altitude		2000m	
Machine dimension(L*W*Hmm)		530*360*222mm	

Note: 1. Specifications are subject to change without prior notice;
2. Special voltage and power requirements can be customized according to the actual situation of users.