ZRS PV And The Mains Complementary Storage Inverter

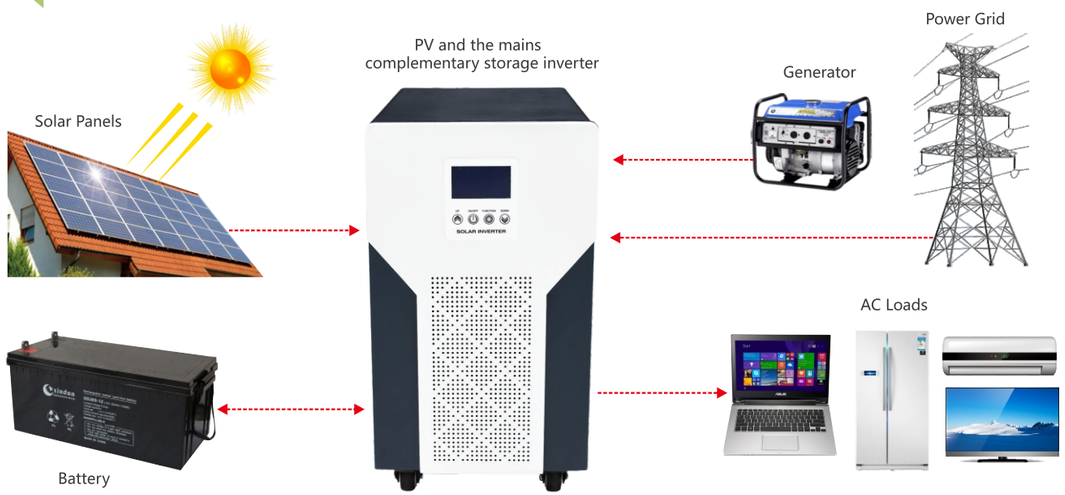
Product Description

PV and the mains complementary storage inverter is applied to solar energy storage micro-grid system. Solar system could be with or without storage battery configuration. A solar energy storage micro-grid system is made up when batteries are configured. A solar energy micro-grid system is made up when batteries are not configured. 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 , it would be stored in batteries, to maximize the utilization of PV power generation, so as to achieve the purpose of electricity cost saving.

Feature

- Integrated intelligent energy management system, a variety of modes could be set;
- High transfer efficiency;
- Ease city grid pressure, reduce electricity bills;
- Dual MPPT input, precise algorithm, efficient use of PV energy;
- Support multiple parallel operations for user expansion;
- Solar system could be either with or without storage battery configuration, to reduce the cost of system;
- Either diesel generator input or gasoline generator input is compatible with the system;
- Isolated output of low frequency transformer, with strong impact resistance;
- Large LCD screen, operating parameter could be displayed in real time;
- Support multiple remote monitoring of communication software (RS232\RS485\Mobile APP\SNMP\GSM).

System Application Diagram



Technical Parameters

Model: ZRS		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 (Flexible configuration)	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	
AC Input	Rated voltage	220V/230V	
	Input voltage range	176V~264V	
	Rated input frequency	50Hz/60Hz	
AC Output (PV/Battery 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 (Mains mode)	Rated output power	3KW	5KW
	Output voltage	176V~264V	
	Output frequency	47~52Hz/57~62 Hz	
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)	467*280*508mm	

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.