

SR SERIES

ON&OFF GRID HYBRID SOLAR INVERTER

- Pure sine wave
- WiFi
- Two-way energy storage design
- Configurable working mode
- Support working without battery
- RS485



Features

- Adopting high-frequency design, high power density, small size, and high overall efficiency;
- Bidirectional energy storage design, which can achieve bidirectional flow control of electrical energy, and both photovoltaic and mains electricity can be charged to the battery;
- Ultra wide MPPT range, with a minimum of 40Vdc(24V models) / 80Vdc (48V models);
- Capable of setting working modes (grid connected mode, off grid mode, hybrid mode);
- Equipped with grid connected current setting function;
- Equipped with output priority setting function;
- Equipped with charging priority setting function;
- Equipped with lithium battery BMS communication function;
- Support battery-less operation mode.

System Application Diagram



Product Display

- Household
- Industrial and commercial energy storage
- Airport/high-speed rail station
- Thermal power station/nuclear power station
- Agricultural Irrigation
- Farm use



SR On&Off Grid Hybrid Solar Inverter 1.3KW-12.3KW

Technical Parameters

Model:SR	13212	18224	23224	33224	43224	63248	83248	103248	123248	
PV Input										
Max PV Input Power	2000W	2500W	3000W	5000W		7000W	4500W*2	6000W*2	6000W*2	
MPPT Tracking Voltage Range	30Vdc-240Vdc		40Vdc-450Vdc			80Vdc-450Vdc				
Rated Voltage	180Vdc					360Vdc				
Max PV Input Voltage voc (at the lowest temperature)	300Vdc					500Vdc				
Max PV Input Current	15A			18A		27A	18A*2	22A*2	27A*2	
MPPT Tracking Channels(Input Routed)	1 Routed					2 Routed				
Battery & Charging										
Battery Type	Lead-acid Battery/Lithium Battery									
	Custom Battery (Charging and discharging parameters of different types of batteries can be set through the operation board)									
Rated Battery Voltage	12Vdc	24Vdc				48Vdc				
Battery voltage Range	10.5-15Vdc (default)	21-30Vdc (default)				42-60Vdc (default)				
Max PV Charging Current	80A	60A	80A	120A	150A	120A	150A	180A	200A	
Max AC Charging Current	50A	35A	50A	80A	100A	80A	100A	120A	140A	
Max Charging Current	80A	60A	80A	120A	150A	120A	150A	180A	200A	
On-Grid Operation (AC Output)										
Rated Output Power	1300W	1800W	2300W	3300W	4300W	6300W	8300W	10.3KW	12.3KW	
Rated Output Voltage	220Vac / 230Vac / 240Vac									
Grid Voltage Range	187Vac ~ 264Vac									
Rated Output Frequency	50Hz / 60Hz									
Frequency Range	47Hz~52Hz(50Hz),57Hz~62Hz(60Hz)									
Rated Output Current	5.9A/5.6A/5.4A	8.1A/7.8A/7.5A	10.4A/10A/9.5A	14.5A/13.9A/13.3A	19.5A/18.7A/17.9A	28.6A/27.4A/26.2A	37.7A/36.1A/34.6A	46.7A/44.9A/42.9A	55.9A/53.5A/51.3A	
Power Factor	> 0.98(Rated Power)									
Off-Grid Operation (AC Input)										
Rated Input voltage	220V / 230V / 240V									
Mains input voltage range	165Vac~280Vac / 120Vac~280Vac (Can be set)									
Rated Input Frequency	50Hz / 60Hz									
Input Frequency Range	45Hz~55Hz(50Hz),55Hz~65Hz(60Hz)									
Off-Grid Operation (AC Output)										
Rated Output Power	1300W	1800W	2300W	3300W	4300W	6300W	8300W	10.3KW	12.3KW	
Rated Output Voltage	220V / 230V / 240V									
Output Voltage Accuracy	±2%									
Rated Input Frequency	50Hz / 60Hz									
Output Frequency Accuracy	±1%									
Output Wave	Pure Sine Wave									
Hybrid Operation (AC Input)										
Rated Input voltage	220V / 230V / 240V									
Mains input voltage range	187Vac~264Vac									
Rated Input Frequency	50Hz / 60Hz									
Input Frequency Range	47Hz~52Hz(50Hz),57Hz~62Hz(60Hz)									
Hybrid Operation (AC Output)										
Rated Output Power	1300W	1800W	2300W	3300W	4300W	6300W	8300W	10.3KW	12.3KW	
Rated Voltage Rated	220Vac / 230Vac / 240Vac									
Output Current	5.9A/5.6A/5.4A	8.1A/7.8A/7.5A	10.4A/10A/9.5A	14.5A/13.9A/13.3A	19.5A/18.7A/17.9A	28.6A/27.4A/26.2A	37.7A/36.1A/34.6A	46.7A/44.9A/42.9A	55.9A/53.5A/51.3A	
Regular Parameters										
Maximum Conversion Efficiency (Battery Discharge)	94%(peak value)									
MPPT Tracking Efficiency	≥99.9									
Transfer Time	10ms(Typical value)									
Display	LCD+LED									
Cooling Method	Cooling fan in intelligent control									
Communication	RS485/Mobile APP(WIFI Monitoring or GPRS monitoring)(Optional)									
Protection Degree	IP20									
Installation	Wall-Mounted									
Protect										
Battery low voltage alarm	11Vdc(default value)	22Vdc (default value)				44Vdc (default value)				
Battery low voltage protection	10.5Vdc(default value)	21Vdc (default value)				42Vdc (default value)				
Anti-islanding protection	≤2S									
Overload power protection	Automatic Protection (battery mode),Circuit Breaker or Insurance (AC mode)									
Output short circuit protection	Automatic Protection (battery mode),Circuit Breaker or Insurance (AC mode)									
Temperature protection	>90°C (turn off inverter and charging)									
Environment										
Operating temperature	-10C~50°C									
Storage temperature	-15C~60°C									
Nois	≤55dB									
Elevation	2000m (More than derating)									
Humidity	0%~95% ,No condensation									
Dimensions And Weight										
Product Size(L*W*Hmm)	285*250*91			325*275*102	375*297*102	390*320*112	515*365*117	535*462*117	630*540*130	
Package Size(L*W*Hmm)	360*305*156			400*330*167	450*352*167	465*375*187	615*460*212	630*557*212	730*635*225	
N.W.(kg)	4	4.2	4.5	5.5	6.7	8	13	14.7	22	
G.W.(kg)	5	5.2	5.5	6.5	8	9.5	15	17	25	

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.

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