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SRNE

SR-IC series 🅱

High-Frequency Pure Sine Wave Inverter

SR-IC12-1kW   SR-IC12-2kW   SR-IC12-3kW   SR-IC24-3kW

Connection Diagram

Solar Panel → (DC) → MPPT Controller → (DC) → Battery → (DC) → Inverter → (AC) → AC Load
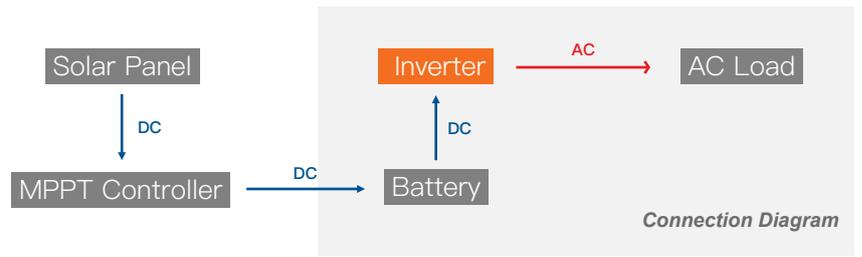
Stable

– Advanced SPWM modulation technology with pure sine wave output and high power quality.

– High power density and long life devices are selected to support long term operation at full power.

Efficiency

– High conversion efficiency, low losses and low harmonic distortion rate.

– Multiple operating modes for maximum power savings.

Intelligent

– Bluetooth as standard, supports mobile phone app to view device operating parameters.

– Multiple expansion interfaces to meet the diverse needs of users.

Safety

– With battery over-voltage and over-discharge protection, output overload and short-circuit protection and over-temperature protection.

– (there is no reverse connection protection, please do not reverse the connection)

– Surge protection design is suitable for lithium battery power systems.
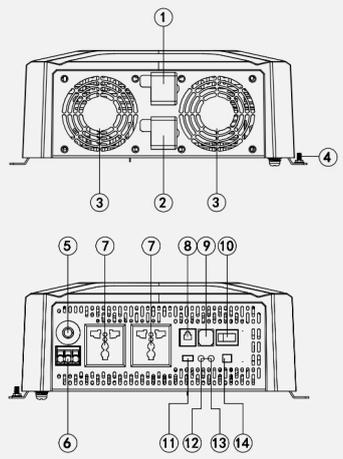
Main

Items	SR-IC12-1kW	SR-IC12-2kW	SR-IC12-3kW	SR-IC24-3kW
Rated battery voltage	12Vdc			24Vdc
Battery voltage range	10.8~16Vdc			21.6~32Vdc
Rated output power	1,000W	2,000W	3,000W	
Peak power	2,000W	4,000W	6,000W	
Rated output voltage	220/230 (default) /240Vac (±3%)			
Output Frequency	50/60Hz			
Output Waveform	Pure sine wave			
THD	THD<3% (Resistive load)			
Power Factor	0.2-1 (Load power≤Continuous output power)			
Rated Output Efficiency	>90%	>89%	>90%	>90%
Max. Output Efficiency	>93.5%(30% load)	>92%(30% load)	>91.5%(30% load)	>93.5%(30% load)
Standby Current (OFF mode)	<0.26A	<0.24A	<0.24A	<0.13A
0 Load Ourrent (ON mode)	<0.8A	<1.0A	<1.45A	<1.2A

General

Items	SR-IC12-1kW	SR-IC12-2kW	SR-IC12-3kW	SR-IC24-3kW
Dimensions	329*229*88mm	366*300*116mm		
Weight	3.2kg	6.0kg	7.0kg	6.0kg
Noise	<60dB			
Cooling Method	Neutral Cooling+ Intelligent Fan			
IP Grade	IP20			
Ambient Temperature	-20°C~60°C			
Certificates	CE、ROHS、IEC62109-1/2、EN61000-6-2/4			

Port

No	Port	No	Port
1	Battery postive terminal	8	RS485 port
2	Battery negative terminal	9	USB port*2 5V/2A
3	Cooling fan	10	ON/OFF/ECO mode switch
4	Grounding terminal	11	TTL port
5	Over-load protector	12	Operation indicator
6	AC output port 1 (terminal)	13	Fault indicator
7	AC output port 2 (socket)	14	External switch terminal

*Please read user manual for more information