SR-IU series 🅱

High-Frequency Pure Sine Wave Inverter

SR-IU12-1kW   SR-IU12-2kW   SR-IU12-3kW

SRNE

Solar Panel → DC → MPPT Controller → DC → Battery → DC → Inverter → AC → AC Load

Connection Diagram
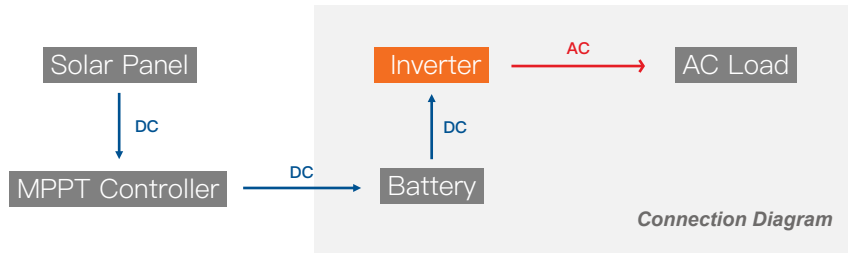
Stable

– 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.
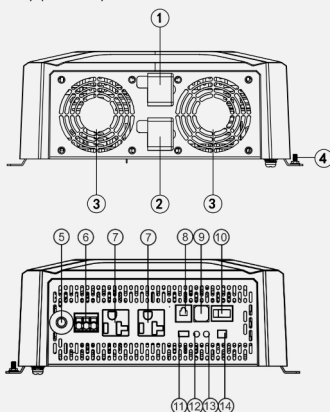
Main

Items	SR-IU12-1kW	SR-IU12-2kW	SR-IU12-3kW
Rated battery voltage	12Vdc		
Battery voltage range	10.8~16.0Vdc		
Rated output power	1,000W	2,000W	3,000W
Peak power	2,000W	4,000W	6,000W
Rated output voltage	110/115/120Vac（±3%)		
Output Frequency	50/60Hz		
Output Waveform	pure sine wave		
THD	THD<4%（resistive load)		
Power Factor	0.2–1（load power ≤ continuous output power)		
Rated Output Efficiency	>87.5%	>89.0%	>90.0%
Max. Output Efficiency	>91.5%(30% load)	>92%(30% load)	>91.5%(30% load)
Standby Current (OFF mode)	<0.26A	<0.24A	<0.24A
0 Load Ourrent (ON mode)	<0.8A	<1.0A	<1.45A

General

Items	SR-IU12-1kW	SR-IU12-2kW	SR-IU12-3kW
Dimensions	331*228*88mm	406*300*116mm	
Weight	3.2kg	5.3kg	
Noise	≤45dB	≤60dB	
Cooling Method	natural cooling + intelligent air cooling		
Protection Degree	IP20		
Ambient Temperature	–20℃~60℃		
Certification	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