SR-IU series

High-Frequency Pure Sine Wave Inverter

SR–IU12–1kW   SR–IU12–2kW   SR–IU12–3kW   SR–IU24–3kW   SR–IU48–3kW

Connection Diagram
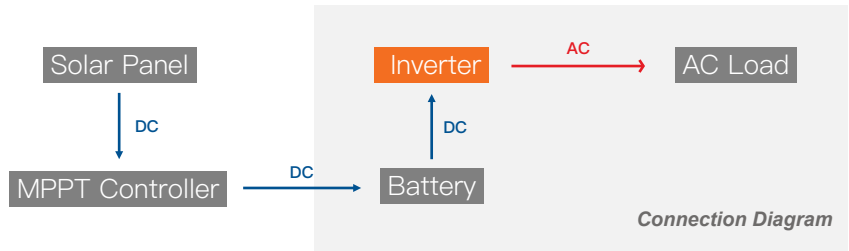
Stable

– 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.
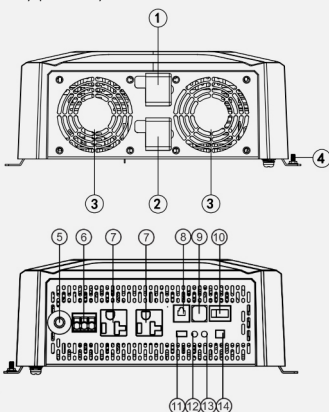
Main

Items	SR–IU12–1kW	SR–IU12–2kW	SR–IU12–3kW	SR–IU24–3kW	SR–IU48–3kW
Rated battery voltage	12Vdc			24Vdc	48Vdc
Battery voltage range	10.8~16Vdc			21.6~32Vdc	43.2~64Vdc
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%	>90%	>90%	>91.5%
Max. Output Efficiency	>91.5%(30% load)	>92%(30% load)	>91.5%(30% load)	>93.5%(30% load)	>94.5%(30%load)
Standby Current (OFF mode)	<0.26A	<0.24A	<0.24A	<0.13A	<0.07A
0 Load Ourrent (ON mode)	<0.8A	<1.0A	<1.45A	<1.2A	<0.5A

General

Items	SR–IU12–1kW	SR–IU12–2kW	SR–IU12–3kW	SR–IU24–3kW	SR–IU48–3kW
Dimensions	331*228*88mm	406*300*116mm			
Weight	3.2kg	5.3kg			
Noise	<60dB				
Cooling Method	Neutral Cooling+ Intelligent Fan				
IP Grade	IP20				
Ambient Temperature	–20℃~60℃				
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