

SR-RIU series



Pure Sine Wave High-frequency Inverter Charger

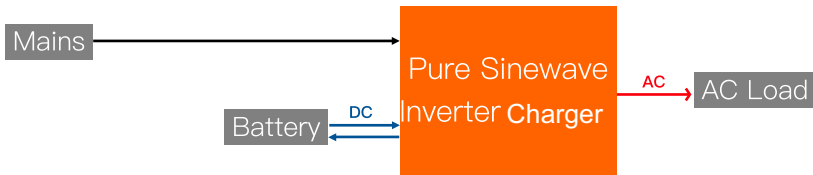
SR-RIU12-3KW

V1.00



Mode 1-Mains First

Mode 2-Inverter First



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.

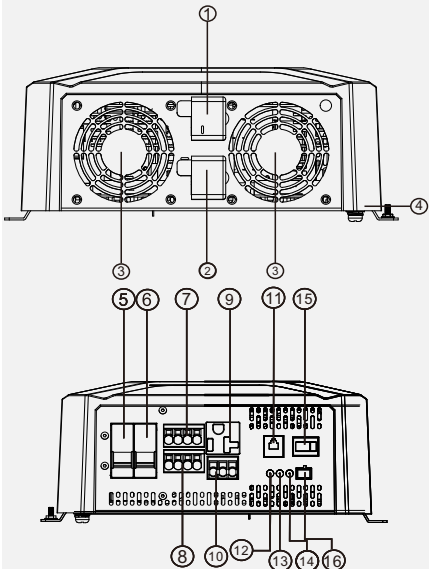
Intelligent

- Bluetooth as standard, supports mobile phone app to view device operating parameters.
- Utility bypass output, inverter output automatic uninterrupted switching power supply

Safety

- With battery over-voltage and over-discharge protection, output overload and short-circuit protection and over-temperature protection.
- Surge protection design is suitable for lithium battery power systems.
- Equipped with AC output RCD earth leakage protection switch

*there is no reverse connection protection, please do not reverse the connection



Main

Items	SR-RIU12-3KW
Inverter Output	
Rated output power	3,000W
Peak power	6,000W
Rated output voltage	100/110/115/120VAC(default)127VAC(±3%)
Output Frequency	50/60Hz
Output Waveform	pure sine wave
THDV	THDV<4% (resistive load)
Power Factor	1
Rated Output Efficiency	>87%
Max. Output Efficiency	>92%(30% load)
No-load loss	< 20W
Battery	
Rated battery voltage	12VDC
Battery voltage range	10.8~15.5VDC
Rated Charging Current	200A
Max. Charging Current	200A(0~200A adjustable)
AC Input	
AC Input Voltage	90~140VAC(Single phase) /180~280VAC(Split phase)
AC Input Frequency	45~65Hz
Rated Input Current	32A
General	
Dimensions	400*300*116mm
Weight	8.3kg
Noise	≤60dB
Cooling Method	Neutral Cooling+ Intelligent Fan
Protection Degree	IP20
Ambient Temperature	-20°C~60°C
Certification	CE、ROHS、IEC62109-1/2、EN61000-6-2/4、IEC60335-1/2-29

Port

No	Port	No	Port
1	Battery positive terminal	9	120V output American standard socket
2	Battery negative terminal	10	120VAC output port
3	Cooling fan	11	RS485 port
4	Grounding terminal	12	Inverter indicator light
5	120V Output AC leakage protection	13	Charing light
6	240V Output AC leakage protection	14	Fault indicator
7	AC input port	15	Work mode switch
8	240V AC output port	16	External switch terminal

*Please read user manual for more information