

SAA Series

Utility Grid & PV & Alternator 3-in-1 Charger

- ☐ Suitable for 12V/24V RV battery system
- ☐ Dual battery charging management
- ☐ Integrates the charging advantages of Utility, PV and Alternator to form up to 7 common charging modes
- ☐ Adopt polyphase synchronous rectifier voltage lifting circuit design
- ☐ Built-in Bluetooth, Mobile APP for easy operation and monitoring
- ☐ Supports Modbus and CANbus(RV-C) communication

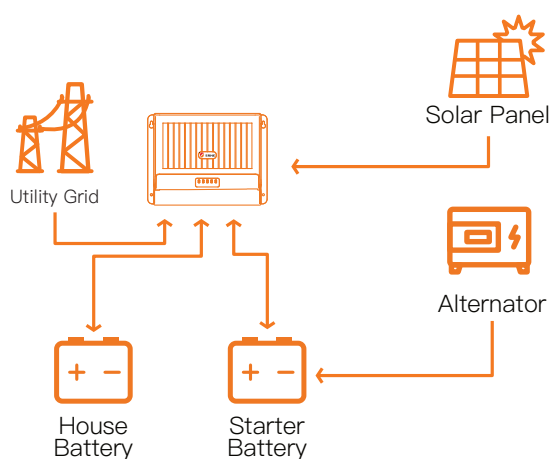
ABOUT SRNE

- ☐ SRNE 15 years in PV industry, committed to independent R&D and production.
- ☐ Holds over 200 patents in energy storage, with unique industry-leading technologies.
- ☐ Chooses top-quality international components to deliver high-value products to customers.
- ☐ Upholds values of customer priority, proactivity, responsibility, and innovative breakthroughs.

MODEL		SAA1230		SAA1250	
PV INPUT					
Max. Input Voltage		65VDC			
MPPT Voltage Range		15~50VDC			
Max. Input Current		30A		50A	
Rated Charging Current	12V House battery	30A		50A	
	24V House battery			25A	
Max. Input Power	12V House battery	450W		700W	
	24V House battery	900W			
AC INPUT (GRID)					
AC Input Voltage		90~265VAC			
AC Input Voltage Frequency Range		45~65Hz			
AC Rated Charging Current	12V House battery	30A		50A	
	24V House battery	15A		25A	
STARTER BATTERY / ALTERNATOR					
Battery Type		Lead-Acid			
System Voltage		12/24V(automatic recognition)			
Alternator voltage range	Conventional Alternator	13.2~16VDC/26.4~32VDC			
	Standard Alternator	12~16VDC/24~32VDC			
	User-defined	11~14VDC adjustable (24V Generator system*2)			
Rated Alternator Charging Current		House Battery 12V & Starter Battery 12V 40A House Battery 24V & Starter Battery 12V 20A House Battery 12V/24V & Starter Battery 24V 40A		House Battery 12V 50A House Battery 24V 25A	
Max. Alternator Input Current		50A		65A	
Alternator Charging Mode		Buck, Boost			
HOUSE BATTERY					
Battery Type		Lead-Acid / Li-ion / User-Define			
System Voltage		12/24V(automatic recognition)			
Battery Voltage Range		9~32VDC			
EFFICIENCY					
MPPT Tracking Efficiency		>99%			
Max. Charging Conversion Efficiency		96%			
GENERAL					
Dimensions		238*176*74mm		255*96*90mm	
Weight		3kg		4.5kg	
Ingress Protection		electronic component: IP43 wiring terminal: IP22			
Altitude		≤3000m			
Operating temperature		- 35℃~65℃			
Communication		TTL/RS485/Bluetooth/CAN			

PROTECTION

Over-charging protection, over-current protection, over-temperature protection, generator reverse connection protection, solar panel reverse connection protection, house battery reverse connection protection, night-time anti-reverse charging protection, short circuit protection.



wiring diagram

