

SPE-SM SERIES

Pure Sine Wave
Inverter/Charger

SPE-SM series are combined with **80A MPPT** solar charger, AC charger, auto transfer switch and inverter unit for renewable energy systems. Unlike the normal inverter, SPE-S is able to work without battery in daytime. That means it can transfer solar power to usable AC power with high stability which is even better than utility power.



FEATURES

- **CHARGING PRIORITY**
SPE-SM inverter supports manual selecting charging source priority between utility AC power and solar power.
- **WORK WITHOUT BATTERY**
SPE-SM gives the opportunity of using without battery being connected. It is able to work independently when solar power input to run the loads.
- **ADJUSTABLE SETTING**
Charge current, working mode and various inverter setting can be adjustable based on the various requirements which provide large convenience for different application.

APPLICATIONS



RV Solar



Mobilehouse Solar



Off Grid Solar

MONITOR SCREEN



PROTECTION

- Input/Output over current
- AC input over/low voltage
- Battery over/low voltage
- Output overload
- Short circuit
- Over temperature

POWER RANGE

3200 W

5000 W

	SPE3200-SM	SPE5000-SM
Rated power	3200 W	5000 W
Continuous power	3200 W	5000 W
Peak power	6400 W	10000 W
BATTERY		
Rated voltage	24VDC (21~32VDC)	48VDC (42~64VDC)
AC Charge current	Max. 60A	Max. 60A
Battery type	Gel, Lead acid, AGM	
AC INPUT		
Voltage range	170~280VAC (for PC and sensitive loads); 90~280VAC (for home appliances)	
Frequency	57-65Hz (± 0.3 Hz)	57-65Hz (± 0.3 Hz)
AC Output		
Voltage range	230VAC $\pm 2\%$	230VAC $\pm 2\%$
Frequency	50Hz ± 0.3 Hz	50Hz ± 0.3 Hz
Output waveform	pure sine wave	pure sine wave
Switch time	<10ms	<10ms
Efficiency	>90%	>90%
Overload capacity	102~110% 5 mins alarm then output off 110~125% 10 sec alarm then output off >125% 5 sec alarm then output off	
Max. Bypass power	3800W	6000W
Protection	battery low/over voltage, overload, over temperature, short-circuit protection	
MPPT SOLAR CHARGE		
PV input voltage	120~450VDC; Max. 500VDC	120~450VDC; Max. 500VDC
Max. PV power	4000W	4000W
Max. charge current	80A	80A
MPPT efficiency	>99%	>99%
Charge voltage	40.0~60.0V	40.0~60.0V
GENERAL		
Working temperature	-15~55°C	-15~55°C
Storage temperature	-25~60°C	-25~60°C
Working/ Storage environment	0-90% no condensation	
Dimension (W*D*H)	100*300*440 mm	
Communication	USB/RS485(Bluetooth/WiFi/GPRS)/Dry node control	