

# 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
<b>BATTERY</b>		
Rated voltage	24VDC (21~32VDC)	48VDC (42~64VDC)
AC Charge current	Max. 60A	Max. 60A
Battery type	Gel, Lead acid, AGM	
<b>AC INPUT</b>		
Voltage range	170~280VAC (for PC and sensitive loads); 90~280VAC (for home appliances)	
Frequency	57-65Hz (± 0.3Hz)	57-65Hz (± 0.3Hz)
<b>AC Output</b>		
Voltage range	230VAC±2%	230VAC±2%
Frequency	50Hz±0.3Hz	50Hz±0.3Hz
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	
<b>MPPT SOLAR CHARGE</b>		
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
<b>GENERAL</b>		
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	