SM Series

Hybrid Solar Inverter

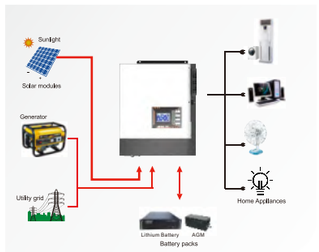
Features

- *Pure sine wave solar inverter*
- *Wifi&GPRS available for IOS and android*
- *Buit-in 80A MPPT solar charger*
- *Buit-in anti-dusk kit for harsh environment(optinal)*
- *Compatibe with lithium-ion battery*
- *Output power factor 1.0*
- *High PV input voltage range(120~500VDC)*
- *Smart battery charge design to optimize battery life*
- *Solar energy is provided directly to the load first*

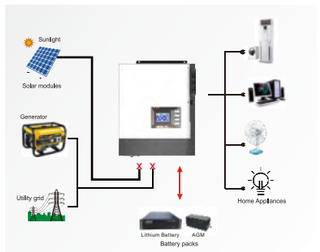
System Digram

■ Operation with battery connected

Solar Power and AC Power available

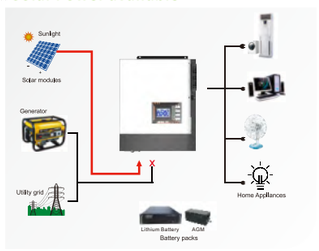


Solar Power and AC Power not available

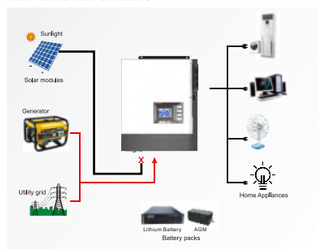


■ Operation without battery connected

Solar Power available



AC Power available



Product Data Sheet

MODEL	SM-2200-24	SM-3200-24	SM-3200-48	SM-5200-48
Rated Power	2200VA/2200W	3200VA/3200W	3200VA/3200W	5200VA/5200W
INPUT				
Voltage	230VAC			
Selectable Voltage Range	170-280VAC(for personal computers) 90-280VAC(for home appliances)			
Frequency Range	50Hz/60Hz (Auto sensing)			
OUTPUT				
AC Voltage Regulation (Batt.Mode)	230VAC±5%			
Surge power	4400W	6400W	6400W	10400W
Efficiency(Peak) PV to INV	97%			
Efficiency(Peak) BAT to INV	94%			
Transfer Time	10ms (for personal computers) 20ms (for home appliances)			
Wave form	Pure Sine Wave			
BATTERY & AC CHARGER				
Battery Voltage	24VDC		48VDC	
Floating Charge Voltage	27VDC		54VDC	
Overcharge Protection	33VDC		63VDC	
Maximum charge current	80A		80A	
SOLAR CHARGER				
MAX.PV Array Power	3000W	4000W	4000W	5000W
MPPT Range@ Operating Voltage	120-450VDC			
Maximum PV Array Open Circuit Voltage	500VDC			
Maximum Charging Current	80A			
Maximum Efficiency	98%			
PHYSICAL				
Dimension.D*W*H(mm)	384*300*105			
Net Weight (kgs)	8kg		9kg	
Communication Interface	RS232(Standard) GPRS/WIFI(Optional)			
OPERATING ENVIRONMENT				
Humidity	5% to 95% Relative Humidity(Non-condensing)			
Operating Temperature	0℃ to 55℃			
Storage Temperature	-15℃ to 60℃			