SM Series

Hybrid Solar Inverter

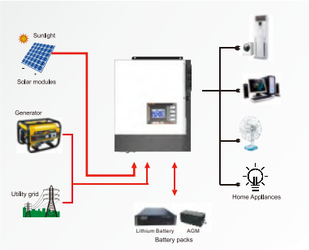
Features

- *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

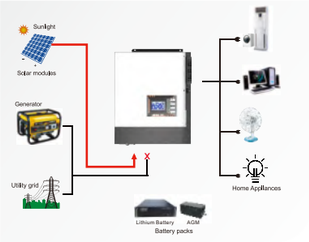
Solar Power and AC Power available



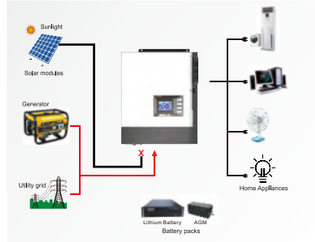
Solar Power and AC Power not available

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°C to 55°C			
Storage Temperature	-15°C to 60°C			