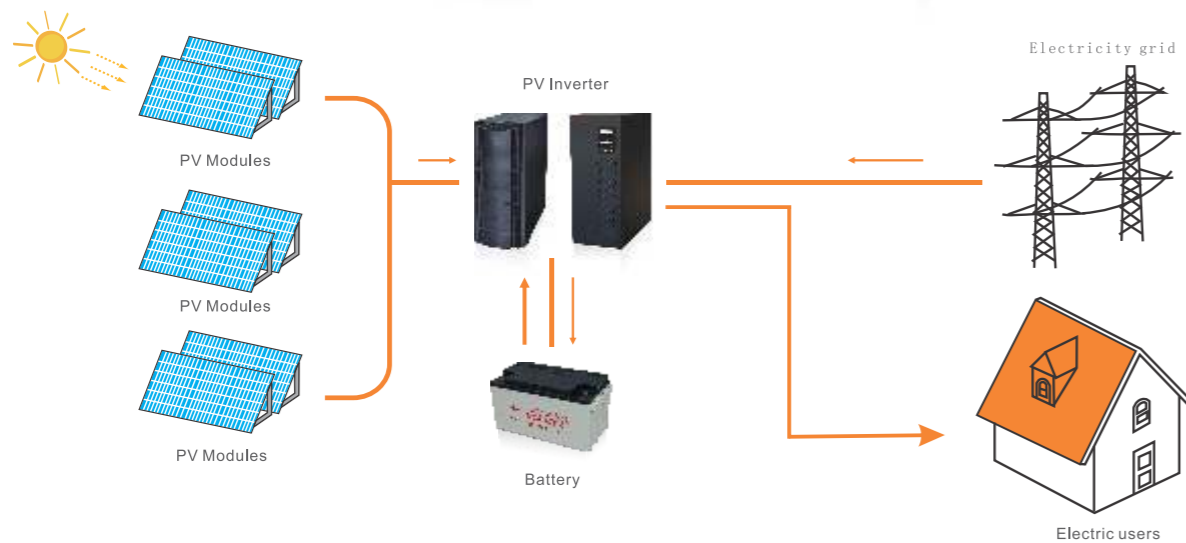


Off-Grid Solar Inverter GP-SM SERIES

3KW ~ 8KW (with isolated transformer)
PF = 1



Features

- Independent MPPT control microprocessor system
- Independent inverter control microprocessor system featured with high-speed online stabilization
- Advanced SPWM technology, high-speed power MOS
- MPPT control using PWM technology enable to bear the maximum PV open-circuit voltage
- Operating mode selectable: PV priority or utility power priority
- Charging current selectable according to configured battery
- AC input with effective online synchronous stabilization technology
- Auto-tracking mains phase to ensure that inverter output voltage has same phase with utility voltage, reducing transfer time and peak surge
- No-load auto shutdown function (optional)
- Automatic frequency selection
- Auto Power-On/Off function; real-time monitoring, test and intelligent startup / shutdown by RS232 or USB interface communicating with PC; remote monitoring by optional SNMP networks

Specifications

MODEL	GP-SM 3000	GP-SM 4000	GP-SM 3000	GP-SM 5000	GP-SM 6000	GP-SM 8000
Rated power	3 KW	4 KW	3 KW	5 KW	6 KW	8 KW
Battery voltage	96 Vdc		192 Vdc			
Operating mode	PV priority / AC priority					
PV INPUT						
Input voltage range	96 Vdc ~ 200 Vdc		192 Vdc ~ 400 Vdc			
Max. charging current	10 ~ 60 A selectable		10 ~ 40 A selectable	10 ~ 60 A selectable		
Optimum operating voltage (Vmp)	120 ~ 142 Vdc		240 ~ 284 Vdc			
Max. PV power (Pmax)	5760 W		7680 W	11520 W		
Max. conversion efficiency	98%					
AC INPUT						
Input voltage	165 ~ 275 Vac					
Input frequency	40 ~ 70 Hz (overloading : auto transfer to DC power supply)					
Output voltage	220 Vac ± 5%					
Input power factor	≥ 0.8					
Max. efficiency	88% (online mode)					
Max. charging current	8 A		12 A			
Short circuit	Current-limiting, transfer to bypass; air circuit-breaker					
INVERTER OUTPUT						
Output voltage	220 Vac ± 5%					
Output frequency	50 Hz / 60 Hz ± 1% (auto-sense)					
Waveform	Sinusoidal					
Output power factor	1					
Waveform distortion	≤ 5% (linear load)					
Transfer time (PV - AC)	0 ms					
Max. efficiency	92%					
Short circuit	Current-limiting, transfer to bypass or system auto shutdown					
ALARMS						
Utility power abnormal	4 s per beep , auto mute in 40 s					
Low battery	0.2 s per beep					
Overload	1 s per beep					
COMMUNICATIONS						
Communication interface	RS232, USB, RS485, SNMP (optional)					
Dry contacts	PV fault, low battery, overload, bypass, inverter fault, generator ON / OFF					
OTHERS						
Overload protections	110% for 255 s; 125% for 60 s; 150% for 10 s					
Wiring	Terminal blocks					
EMI	EN62040-2:2006; EN61000-3-2:2006; EN61000-3-3:2008					
IP rating	IP20					
Ambient temperature	0°C ~ 40°C					
Relative humidity	10% ~ 90% (non-condensing)					
Noise	≤ 50 dB					
Operating altitude	2000 m (derating 1% for each additional 100 m)					
Dimensions (W × D × H) (mm)	560 × 265 × 725					
Packaged dimensions (W × D × H) (mm)	662 × 360 × 905					
Net weight (kg)	76	80	60	67	69	85
Gross weight (kg)	85	89	69	76	78	94

● All specifications subject to change without notice.