

## SP Grid Tied Solar Inverter Series

**Rating:** 4000W - 5000W

**Output Voltage:** 230VAC

**Configuration:** Rackmount

PowerHub series single phase inverter is a new generation of PV string inverter which has been developed for residential users. SP Solar Inverter series have the advantages of compact size, light weight, easy installation and maintenance, and are above all cost efficient.

### Product Highlights:

#### Efficient

- The core technologies are from Germany.
- Wider voltage range, lower starting voltage and higher conversion efficiency (Max efficiency can be reach to 98.3% ).
- Two MPPT, adapt to the complex environment of roof, improve power generation.
- Adopt the latest technologies and combination of T-type three level topologies and SVPWM.

#### Reliable

- Aluminium casing, natural cooling, IP65 protection level.
- Adopt internationally famous brand components to ensure the stable operation of inverter.

#### Smart

- Smart grid adaptive to meet the requirements of various power grid accesses.
- Variety of monitoring modes: APP (one-button registration), large screen data monitoring center, cloud monitoring platform.
- Support RS485,GPRS,WIFI, Ethernet.

#### Simple

- Home appliance design, easy to operation.
- Small in size, light in weight, easy to install by a single person.



Model	SGT-3K6M	SGT-4K2M	SGT-4K6M	SGT-3K6M2	SGT-4K2M2	SGT-4K6M2
Input (DC)						
Rated DC input power (W)	4000	4600	5000	4000	4600	5000
Max DC input power (W)	4500	5000	5500	4500	5000	5500
Starting Power (W)	50					
Staring Voltage /Min. Operation Voltage (V)	120/100					
MPPT Range (V)	120-550					
Number Of MPPT / String Per MPPT	1/2			2/1		
MAX.DC Current (A) Per MPPT x Number of MPPT	18x1	18x1	20x1	10x2	11x2	12x2
DC Switch Output (AC)	Optional					
Output (AC)						
Rated Power (W)	3680	4200	4600	3680	4200	4600
Max Power (W)	4000	4600	5000	4000	4600	5000
Max. AC Output Current (A)	19	21	23	19	21	23
AC Voltage Range	230/180~277Vac					
	According to VDE-AR-N4105, G83/2, G59/3, AS4777/3100, CQC					
Grid Frequency	50Hz (44~55Hz) / 60Hz (54~65Hz)					
	According to VDE-AR-N4105, G83/2, G59/3, AS4777/3100, CQC					
Power Factor	≥0.99 (Adjustable)					
THD	< 3% (At Rated Power)					
AC Connection	Single Phase (L, N, PE)					
System						
Cooling	Natural cooling					
Max. Efficiency	97.70%	97.70%	97.80%	97.90%	98.00%	98.00%
Euro-efficiency	96.50%	96.70%	96.80%	96.80%	96.80%	96.80%
MPPT efficiency	99%					
Ingress Protection	IP65					
Consumption At Night	<1W					
Isolation Mode	Transformerless					
Operating Temperature	-25 ~+60, (derate after 45 )					
Relative Humidity	0~95%, no condensation					
Protection	Over voltage protect; DC insulation monitoring; DC over current protection; monitoring; Grounding fault monitoring; island protection; Overheating protection; Electronic protection; Overvoltage and short circuit protection etc.					
Display And Communication						
Display	LED Display (standard) / LCD (Optional)					
System Language	English, Chinese, German, Dutch					
Communication Mode	RS485 (Standard), WiFi, Ethernet (Optional)					
Mechanical Parameters						
Dimension (H x W x D mm)	405x360x150				460x360x150	
Weight (kg)	15				17	
Installation	Wall mounting					
Others						
DC Terminal	BC03A, BC03B ( PV-CF-S2, 5-6 (+) ....; PV-CM-S2, 5-6 (-)...., Helios H4 2.5mm² )					
Certifications	VDE-AR-N4105, G83/2, C10/11, TF3.2.1, AS4777/3100,CQCEN61000-6-1:4, EN61000-3-2:3, EN61000-11:12, IEC 62109-1:2010, LVRT					

\* Specifications are subject to change without prior notice