

SP Grid Tied Solar Inverter Series

Rating: 750W - 3000W

Output Voltage: 230VAC

Configuration: Rackmount

PowerHub Single Phase Grid Tied Solar Inverter is a new generation of PV string inverter which has been developed for residential users. MG series inverters 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-750M	SGT-1KM	SGT-1K5M	SGT-2KM	SGT-3KM	SGT-3KM2
Input (DC)						
Max DC input power (W)	900	1200	1700	2200	3200	3300
Max DC Voltage (V)	400	450			500	600
Starting voltage /Min. Operation Voltage (V)	65/60	80/60	100/80	120/100		
Starting Power (W)	30					
MPPT Operating Voltage Range (V)	60-350	80-400	100-410	120-410	120-450	120-550
Number of MPPT/ String Per MPPT	1/1				1/2	2/1
MAX.DC Current (A) Per MPPT x Number of MPPT	10x1	10x1	10x1	13x1	15x1	10x2
DC Switch	Optional					
Output (AC)						
Rated Power (W)	750	1000	1500	2000	3000	3000
Max. AC Output Current (A)	3.6	4.5	6.5	9	13	16
AC Voltage Range	230/180~277Vac					
	According to VDE-AR-N4105, G83/2, C10/11, TF3.2.1, AS4777/3100, CQC					
Grid Frequency	50Hz (44~55Hz) / 60Hz (54~65Hz)					
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Power Factor	≥0.99 (Adjustable)					
THD	< 3% (At Rated Power)					
AC Connection	Single-phase (L, N, PE)					
System						
Cooling	Natural cooling					
Max. Efficiency	96.80%	96.90%	97.20%	97.20%	97.30%	97.90%
Euro. Efficiency	95.95%	96.00%	96.10%	96.10%	96.50%	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; Grounding fault monitoring; Grid protection; island protection; Overheating 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)	280x300x138					460x360x160
Weight (kg)	9.5					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, CQC, EN61000-6-1:4, EN61000-3-2:3, EN61000-11:12, IEC 62109-1:2010, LVRT					

* Specifications are subject to change without prior notice