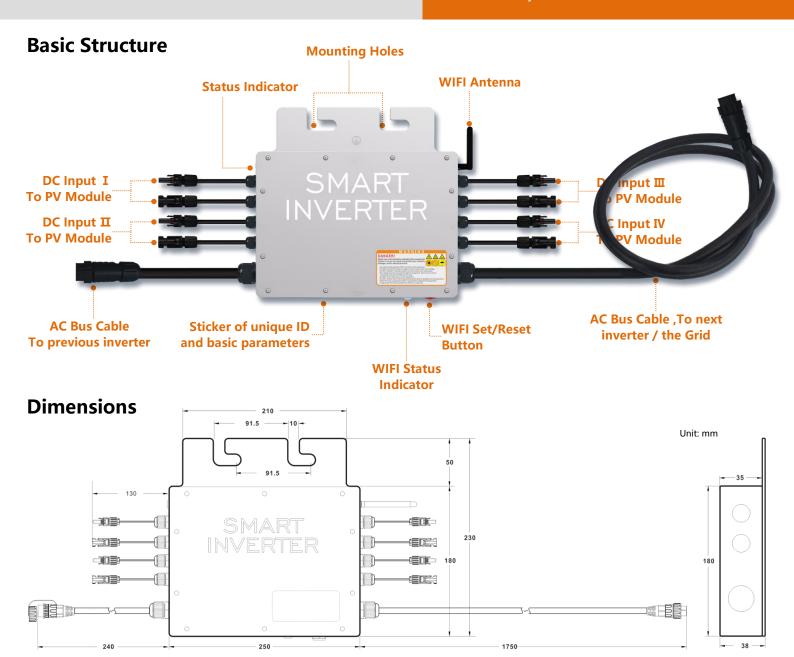
Sunpv Technology Co.Ltd



PV Smart Microinverter

SG1200 Series

- Single unit connects up to four PV modules
- Maximum 1200W AC output power
- Single-phase output, Flexible 3-phase PV systems
- WIFI communication and cloud monitoring
- Up to 8 units (230V) per branch
- Customizable various input (DC, PV) voltage range
- Integrated AC bus cable, Ready-To-Use
- Low cost, Easy installation

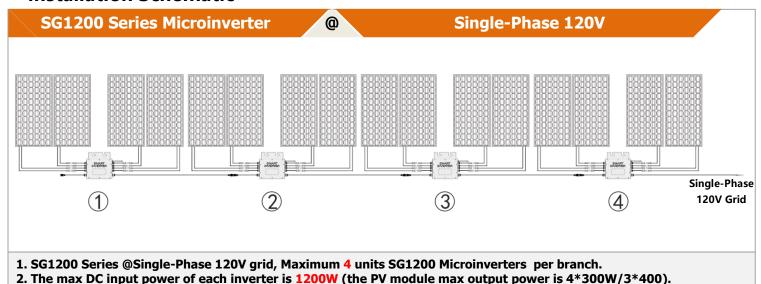


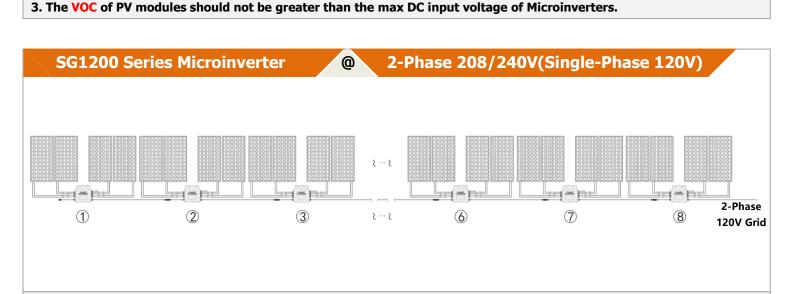
SG1200 Series PV Smart Microinverter - Parameter Table

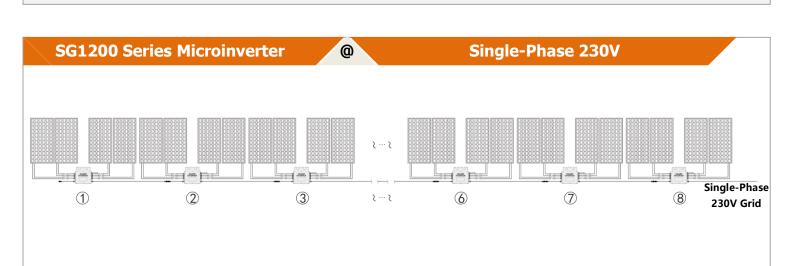
Product Series	SG1200 Series
54 - J.J.	SG1200MQ
Model	(Regular)
Input Data(DC,PV)	
Number of Input MC4 Connector	4 set
MPPT Voltage Range	28V-55V
Operation Voltage Range	20V-60V
Maximum Input Voltage	60V
Startup Voltage	20V
Maximum Input Power	4*300W
Maximum Input Current	4*10A
Output Data(AC)	
Single-Phase Grid Type	120V & 230V
Rated Output Power	1150W
Maximum Output Power	1200W
Nominal Output Current	@120VAC: 9.58A / @230VAC: 5A
Nominal Output Voltage	120VAC / 230VAC
Default Output Voltage Range	@120VAC: 80V-160V / @230VAC: 180V-280V
Nominal Output Frequency	50Hz / 60Hz
Default Output Frequency Range	@50Hz : 47.5Hz-52.5Hz / @60Hz : 57.5Hz-62.5Hz
Power Factor	>0.99
Total Harmonic Distortion	THD <5%
Maximum Units per Branch	@120VAC : 4 units / @230VAC : 8 units
Efficiency	
Peak Efficiency	95%
CEC Weighted Efficiency	@120VAC: 92.5% / @230VAC: 93.5%
Nominal MPPT Efficiency	99.9%
Night Power Consumption	<700mW
Mechanical Data	
Operating Ambient Temperature Range	-40°C to +65°C
Storage Temperature Range	-40°C to +85°C
Dimensions (W x H x D)	250mm x 230mm x 38mm (not include connectors and cable)
Weight	2.5kg
Max Current of AC Bus Cable	40A
Waterproof Grade	IP65
Cooling Mode	Natural Convection - No Fans
Other Features	
Communication	WIFI (Cloud monitoring)
Transformer Design	High Frequency Transformers, Galvanically Isolated
	Equipment ground is provided by the PE in the AC cable. No additional ground
Integrated Ground	is required.
Protection Functions	Isolated Island Protection, Voltage Protection, Frequency Protection,
	Temperature Protection, Current Protection, etc.
Design Compliance	CE etc.

^{**} Specifications subject to change without notice**

Installation Schematic







1. SG1200 Series @Single-Phase 230V grid, Maximum 8 units SG1200 Microinverters per branch.

1. SG1200 Series @2-Phase 208/240V grid, Maximum 8 units SG1200 Microinverters per branch.

3. The VOC of PV modules should not be greater than the max DC input voltage of Microinverters.

2. The max DC input power of each inverter is 1200W (the PV module max output power is 4*300W/3*400).

- 2. The max DC input power of each inverter is 1200W (the PV module max output power is 4*300W/3*400).
- 3. The VOC of PV modules should not be greater than the max DC input voltage of Microinverters.

Wiring Schematic

