

**SG2000 Series**

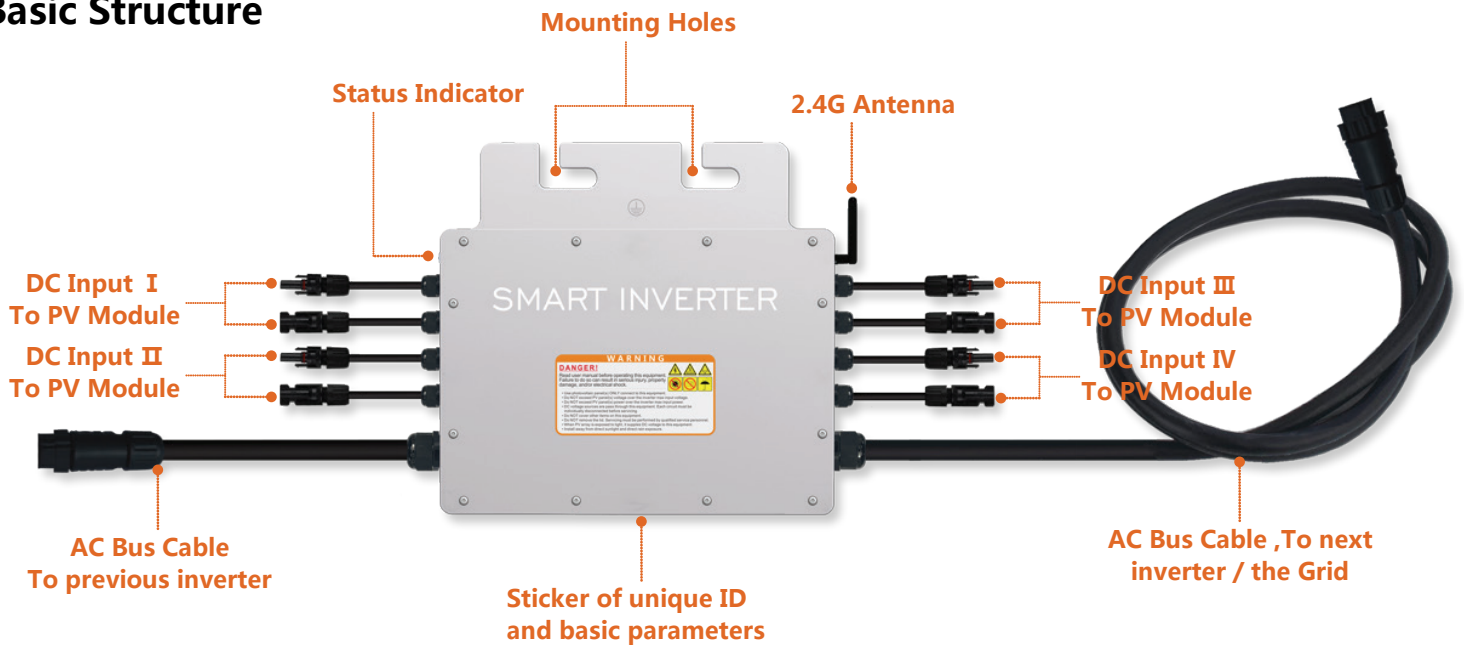
**PV Smart Microinverter**

**SG2000 Series**

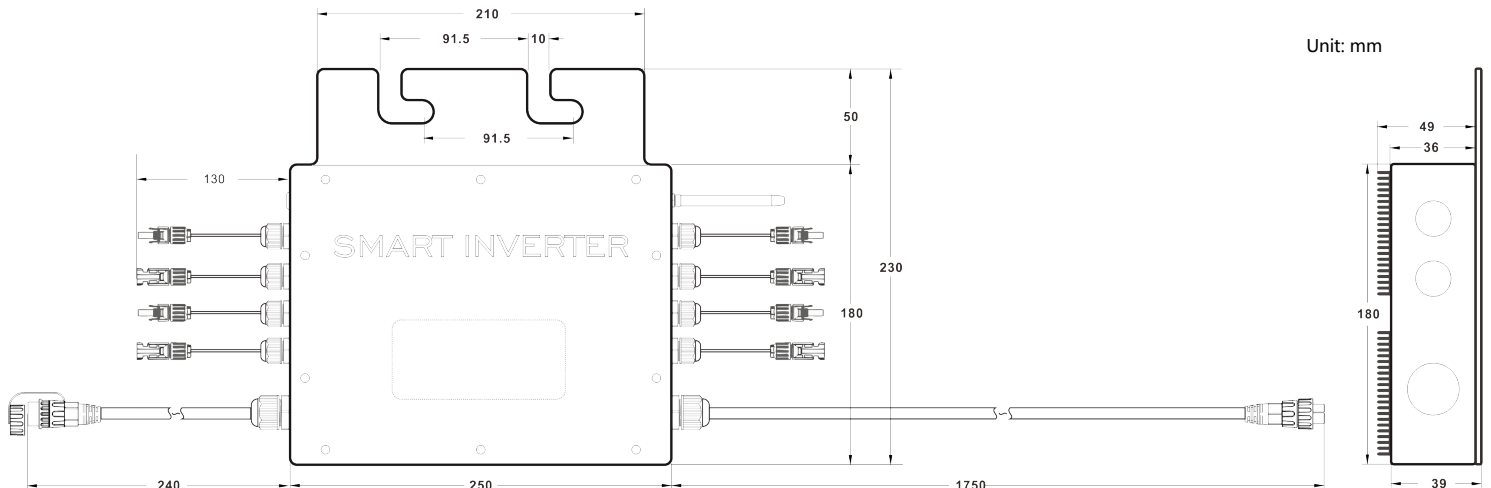


- Single unit connects up to four PV modules
- Maximum 2000W AC output power
- Single-phase output, Flexible 3-phase PV systems
- 2.4G wireless communication and monitoring
- Up to 4 units (230V) per branch
- Customizable various input (DC, PV) voltage range
- Integrated AC bus cable, Ready-To-Use
- Low cost, Easy installation

**Basic Structure**



**Dimensions**



# SG2000 Series PV Smart Microinverter - Parameter Table

Product Series	SG2000 Series	
Model	SG2000MQ (Regular)	SG2000HQ (Custom-made)
<b>Input Data(DC,PV)</b>		
Number of Input MC4 Connector	4 set	4 set
MPPT Voltage Range	24V-40V	36V-60V
Operation Voltage Range	18V-50V	30V-70V
Maximum Input Voltage	50V	70V
Startup Voltage	18V	30V
Maximum Input Power	4*500W	4*500W
Maximum Input Current	4*20A	4*13.8A
<b>Output Data(AC)</b>		
Single-Phase Grid Type	208V , 230V & 240V	
Rated Output Power	1950W	
Maximum Output Power	2000W	
Nominal Output Current	8.4A	
Nominal Output Voltage	230VAC	
Default Output Voltage Range	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	4 units	
<b>Efficiency</b>		
Peak Efficiency	95%	
CEC Weighted Efficiency	@120VAC : 92.5% / @230VAC : 93.5%	
Nominal MPPT Efficiency	99.9%	
Night Power Consumption	<700mW	
<b>Mechanical Data</b>		
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 52mm (not include connectors and cable)	
Weight	2.9kg	
Max Current of AC Bus Cable	40A	
Waterproof Grade	IP65	
Cooling Mode	Natural Convection - No Fans	
<b>Other Features</b>		
Communication(Inverter to DataBox)	2.4G Wireless	
Transformer Design	High Frequency Transformers, Galvanically Isolated	
Integrated Ground	Equipment ground is provided by the PE in the AC cable. No additional ground is required.	
Protection Functions	Isolated Island Protection, Voltage Protection, Frequency Protection, Temperature Protection, Current Protection, etc.	
Design Compliance	NB/T32004:2013,NB/T32004:2013,EN61000-3-2,EN62109,VDE0126,UL1741 etc.	

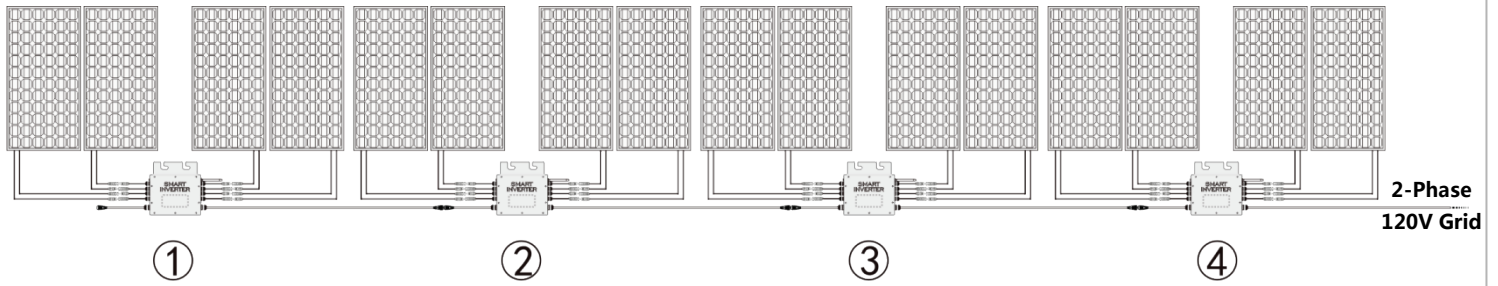
**\*\* Specifications subject to change without notice\*\***

# Installation Schematic

SG2000 Series Microinverter

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2-Phase 208/240V(Single-Phase 120V)

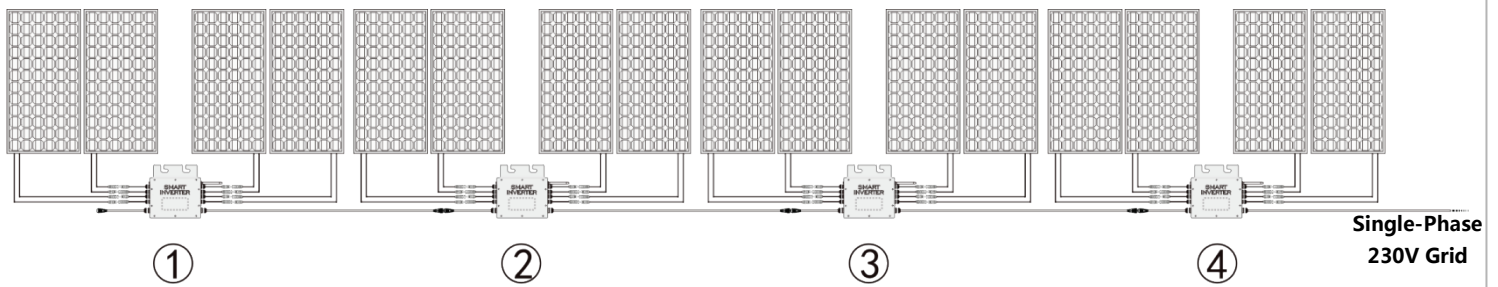


1. SG2000 Series @2-Phase 208/240V grid, Maximum **4** units SG2000 Microinverters per branch.
2. The max DC input power of each inverter is **2000W** (the PV module max output power is 4\*500W).
3. The **VOC** of PV modules should not be greater than the max DC input voltage of Microinverters.

SG2000 Series Microinverter

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Single-Phase 230V



1. SG2000 Series @Single-Phase 230V grid, Maximum **4** units SG2000 Microinverters per branch.
2. The max DC input power of each inverter is **2000W** (the PV module max output power is 4\*500W).
3. The **VOC** of PV modules should not be greater than the max DC input voltage of Microinverters.

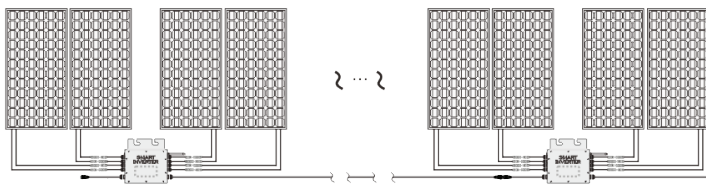
# Wiring Schematic

SG2000 Series Microinverter

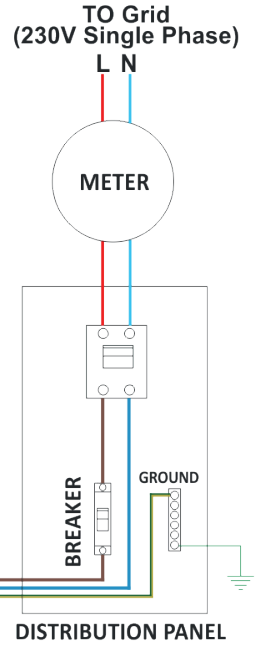
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Single-Phase 230V

Micro Inverter Voltage	230VAC
Grid Voltage	230V
Grid Type	Single Phase



**AC BUS CABLE**  
 P1.BROWN --- L  
 P3.BLUE --- N  
 P2.GREEN&YELLOW --- G

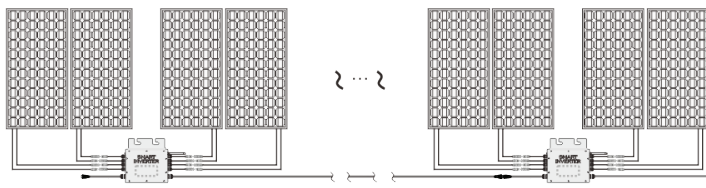


SG2000 Series Microinverter

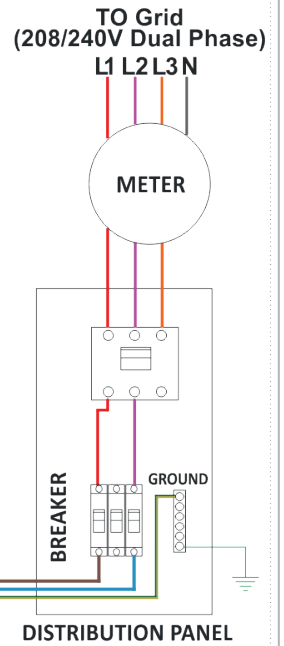
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2-Phase 208/240V(Single-Phase 120V)

Micro Inverter Voltage	230VAC
Grid Voltage	208/240V
Grid Type	Dual Phase



**AC BUS CABLE**  
 P1.BROWN --- L  
 P3.BLUE --- N  
 P2.GREEN&YELLOW --- G

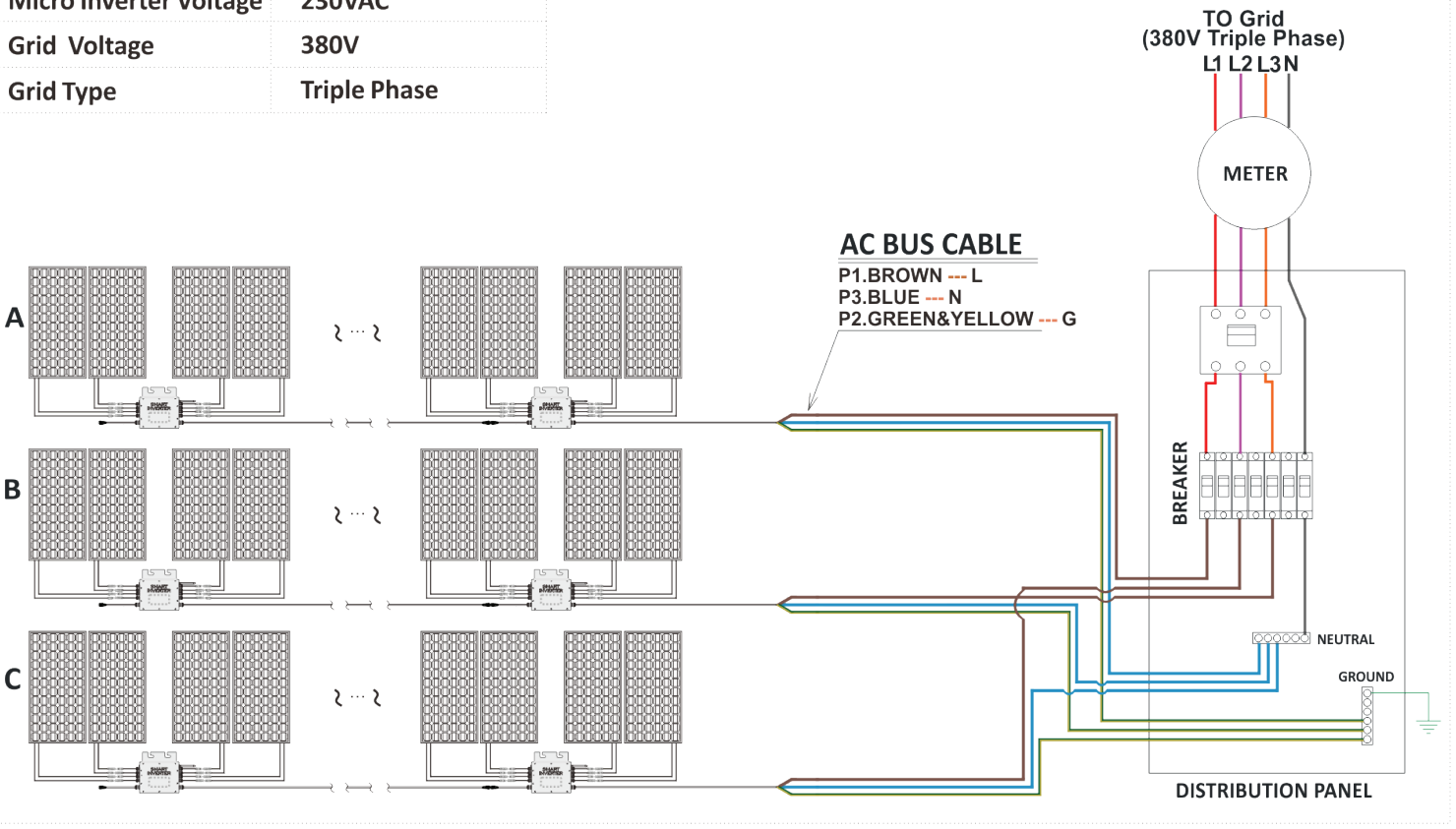


## SG2000 Series Microinverter

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## 3-Phase 380V(Single-Phase 230V)

Micro Inverter Voltage	230VAC
Grid Voltage	380V
Grid Type	Triple Phase



## SG2000 Series Microinverter

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## 3-Phase 208/240V(Single-Phase 120V)

Micro Inverter Voltage	230VAC
Grid Voltage	208/240V
Grid Type	Triple Phase

