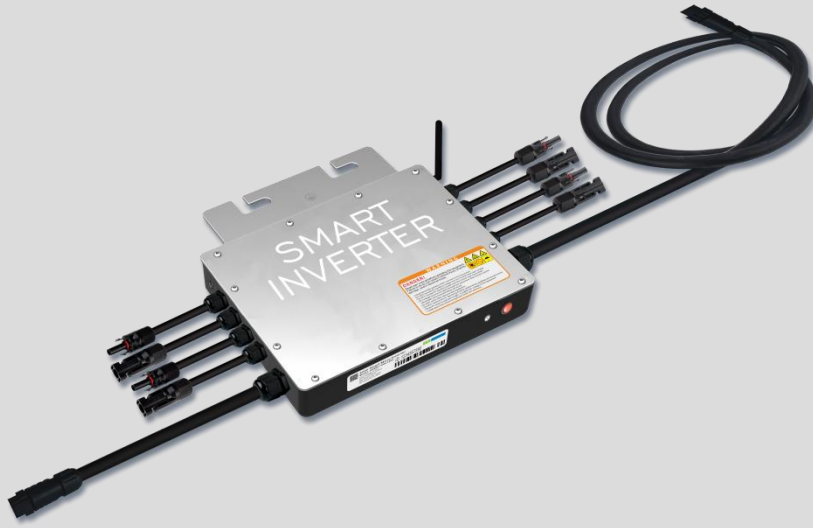


SG1400 Series

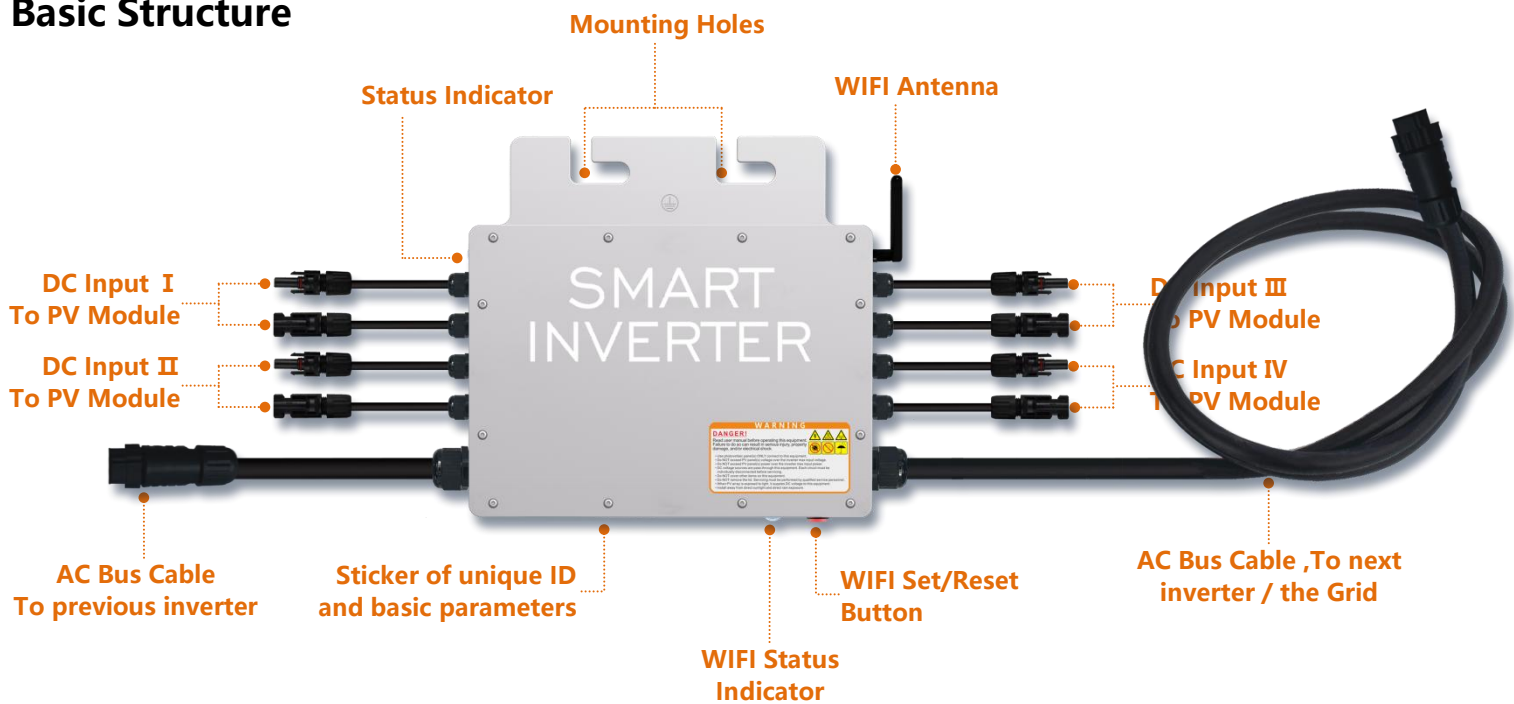
PV Smart Microinverter

SG1400 Series

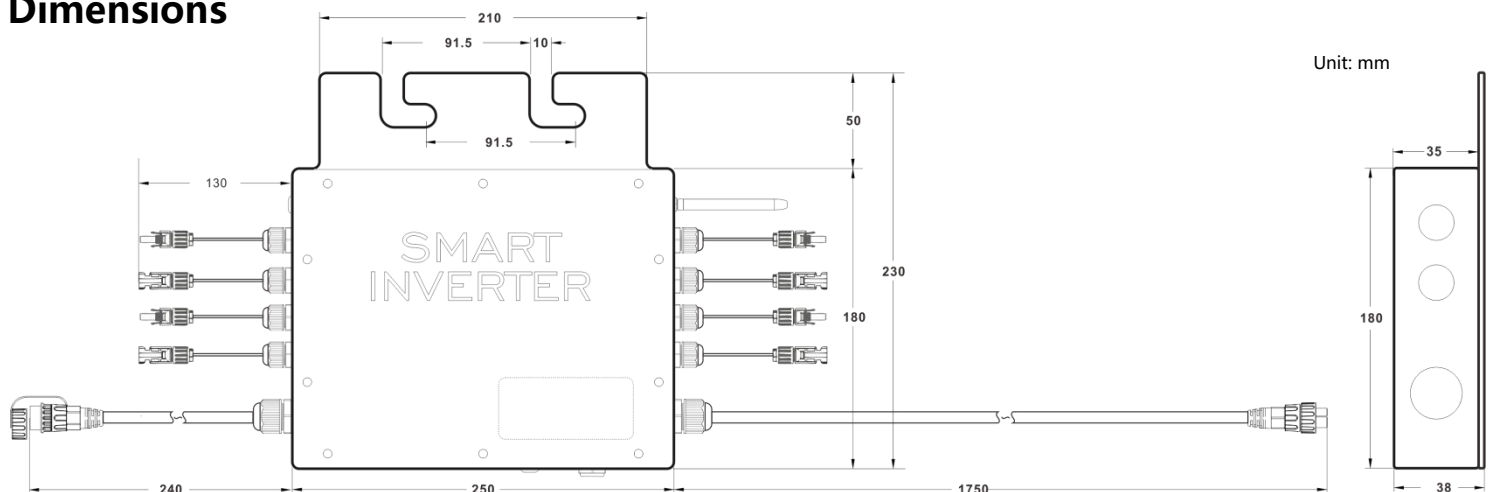


- Single unit connects up to four PV modules
- Maximum 1400W AC output power
- Single-phase output, Flexible 3-phase PV systems
- WIFI communication and cloud monitoring
- Up to 6 units (230V) per branch
- Customizable various input (DC, PV) voltage range
- Integrated AC bus cable, Ready-To-Use
- Low cost, Easy installation

Basic Structure



Dimensions



# SG1400 Series PV Smart Microinverter - Parameter Table

<b>Product Series</b>	<b>SG1400 Series</b>
<b>Model</b>	<b>SG1400MQ</b> (Regular)
<b>Input Data(DC,PV)</b>	
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*350W
Maximum Input Current	4*11.66A
<b>Output Data(AC)</b>	
Single-Phase Grid Type	120V & 230V
Rated Output Power	1350W
Maximum Output Power	1400W
Nominal Output Current	@120VAC : 11.25A / @230VAC : 5.86A
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 : 3 units / @230VAC : 6 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 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
<b>Other Features</b>	
Communication	WIFI (Cloud monitoring)
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	CE etc.

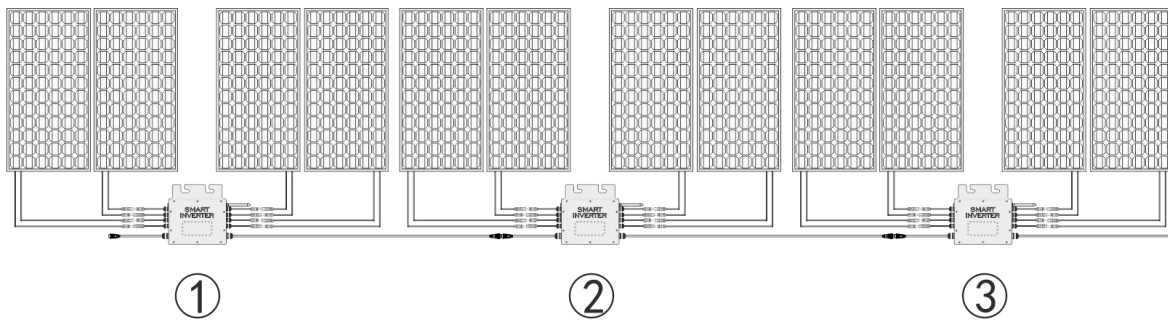
**\*\* Specifications subject to change without notice\*\***

# Installation Schematic

SG1400 Series Microinverter

@

Single-Phase 120V

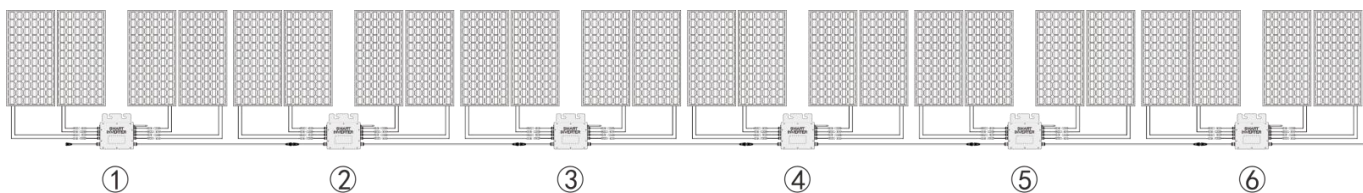


1. SG1400 Series @Single-Phase 120V grid, Maximum **3** units SG1400 Microinverters per branch.
2. The max DC input power of each inverter is **1400W** (the PV module max output power is 4\*350W).
3. The **VOC** of PV modules should not be greater than the max DC input voltage of Microinverters.

SG1400 Series Microinverter

@

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

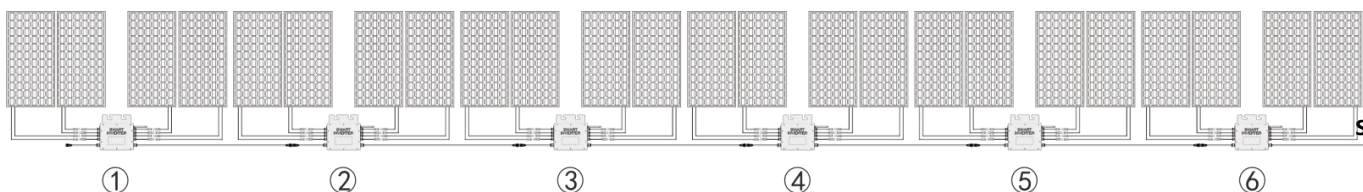


1. SG1400 Series @2-Phase 208/240V grid, Maximum **6** units SG1400 Microinverters per branch.
2. The max DC input power of each inverter is **1400W** (the PV module max output power is 4\*350W).
3. The **VOC** of PV modules should not be greater than the max DC input voltage of Microinverters.

SG1400 Series Microinverter

@

Single-Phase 230V



1. SG1400 Series @Single-Phase 230V grid, Maximum **6** units SG1400 Microinverters per branch.
2. The max DC input power of each inverter is **1400W** (the PV module max output power is 4\*350W).
3. The **VOC** of PV modules should not be greater than the max DC input voltage of Microinverters.

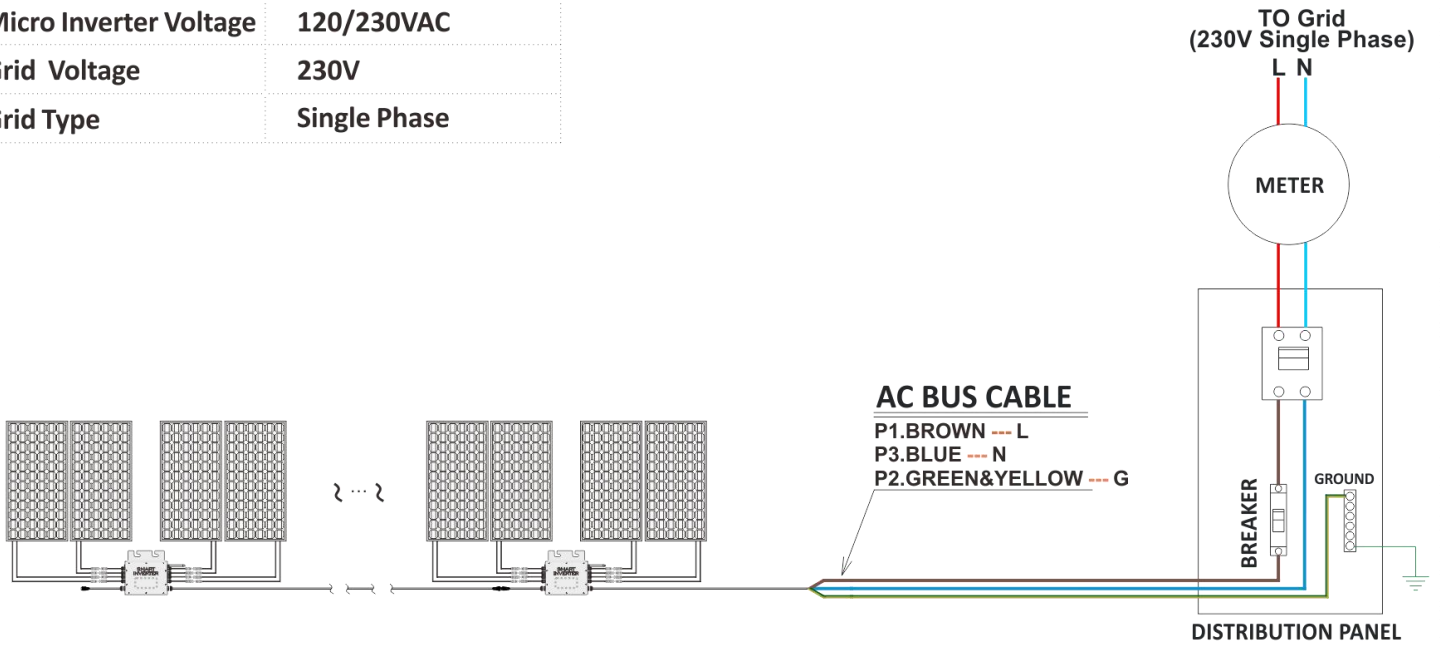
# Wiring Schematic

SG1400 Series Microinverter

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Single-Phase 230V

Micro Inverter Voltage	120/230VAC
Grid Voltage	230V
Grid Type	Single Phase

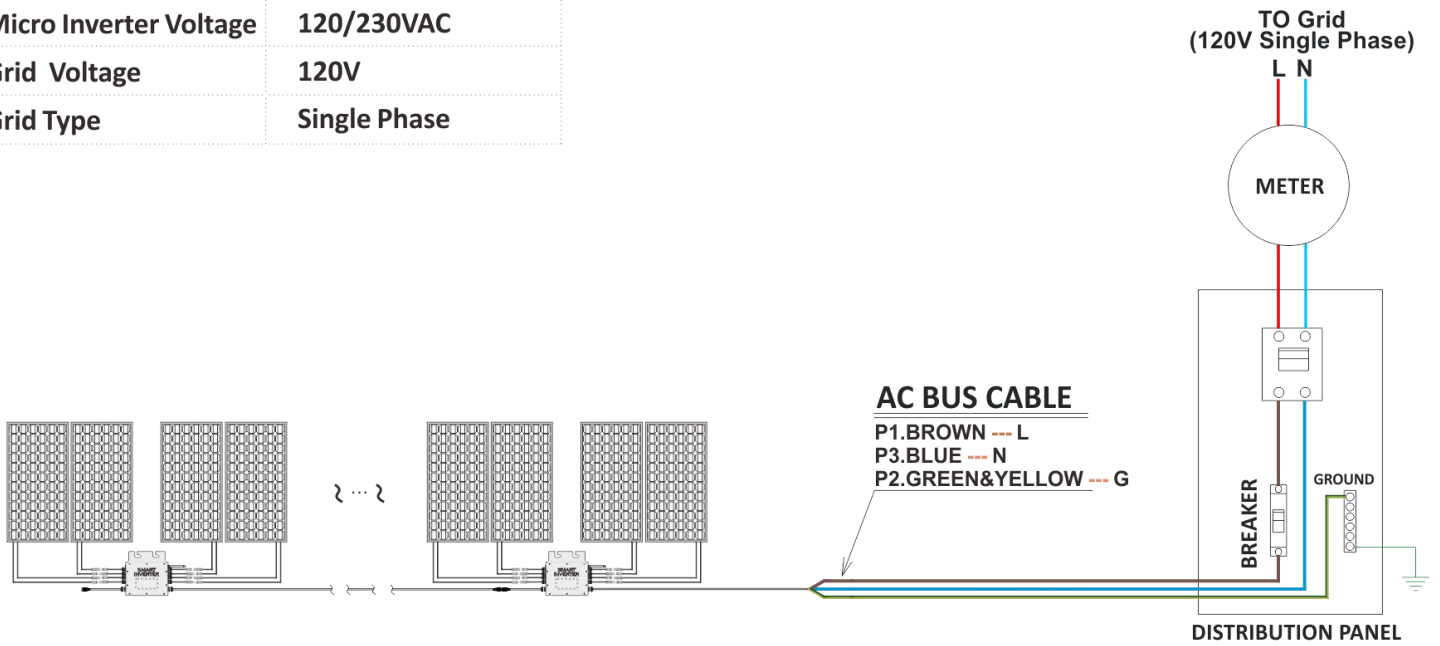


SG1400 Series Microinverter

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Single-Phase 120V

Micro Inverter Voltage	120/230VAC
Grid Voltage	120V
Grid Type	Single Phase

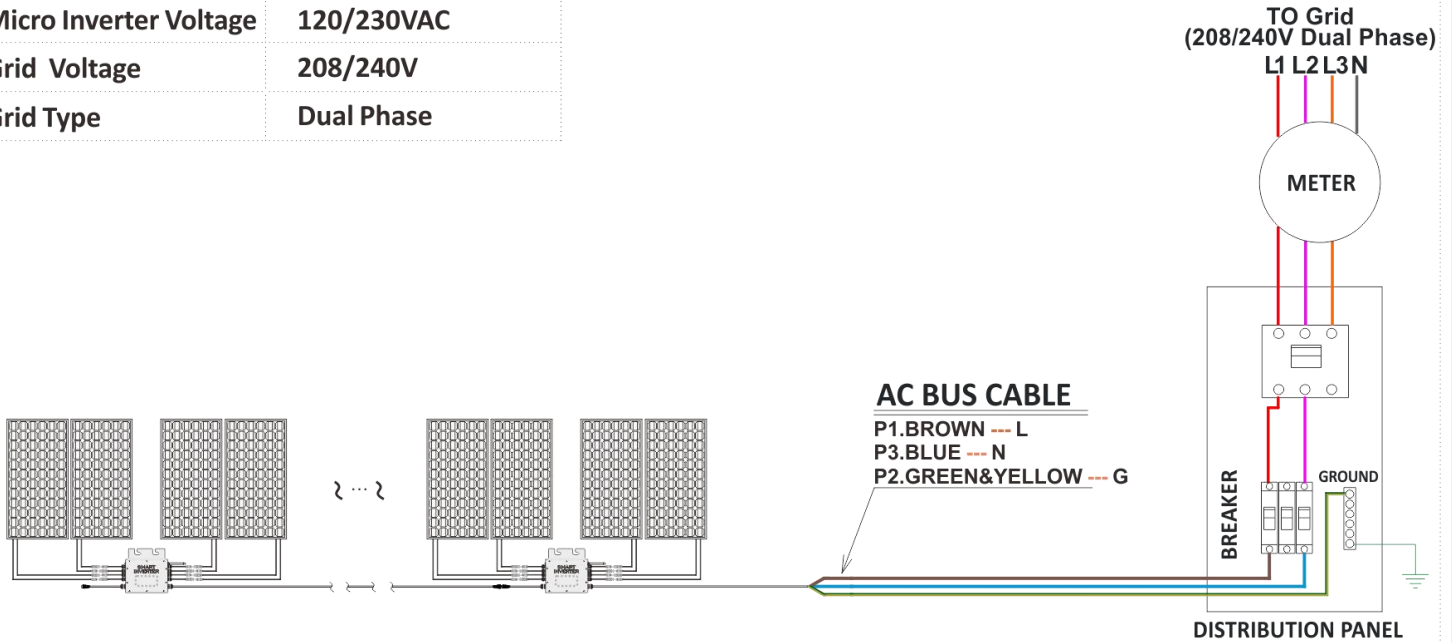


## SG1400 Series Microinverter



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

Micro Inverter Voltage	120/230VAC
Grid Voltage	208/240V
Grid Type	Dual Phase

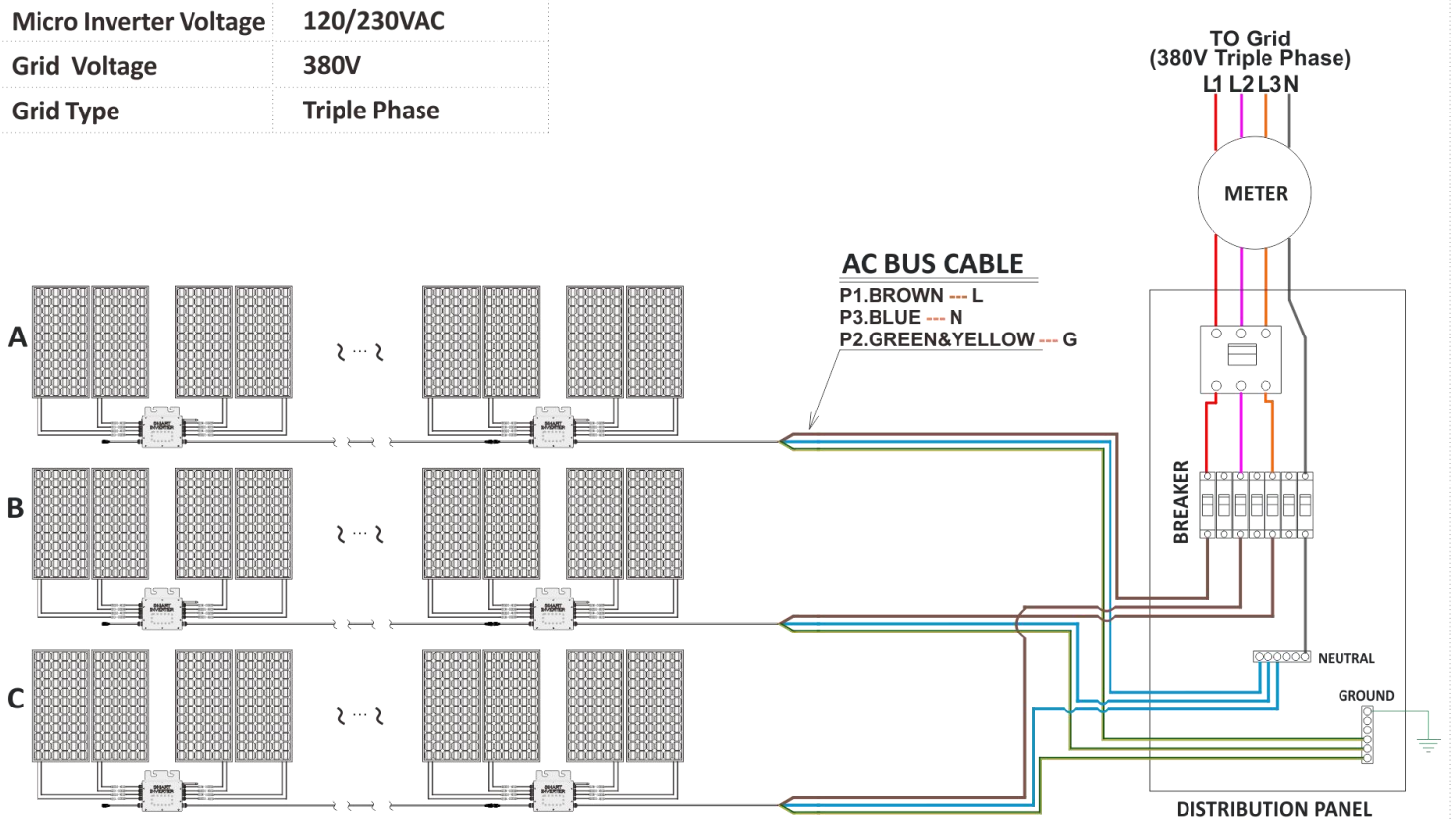


## SG1400 Series Microinverter



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

Micro Inverter Voltage	120/230VAC
Grid Voltage	380V
Grid Type	Triple Phase

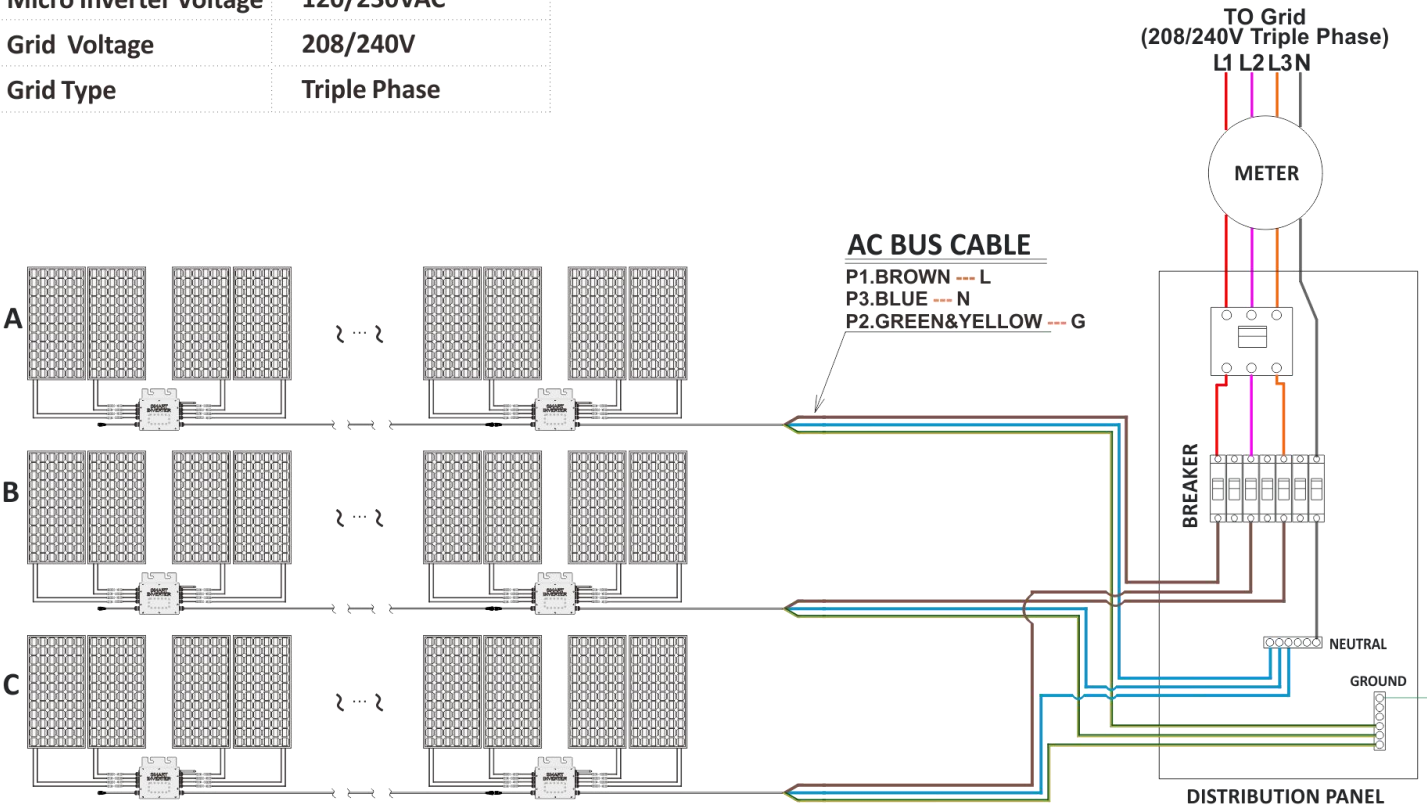


# SG1400 Series Microinverter



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

Micro Inverter Voltage	120/230VAC
Grid Voltage	208/240V
Grid Type	Triple Phase



# SG1400 Series Microinverter



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

Micro Inverter Voltage	120/230VAC
Grid Voltage	208/240V
Grid Type	Triple Phase

