

SG700 Series

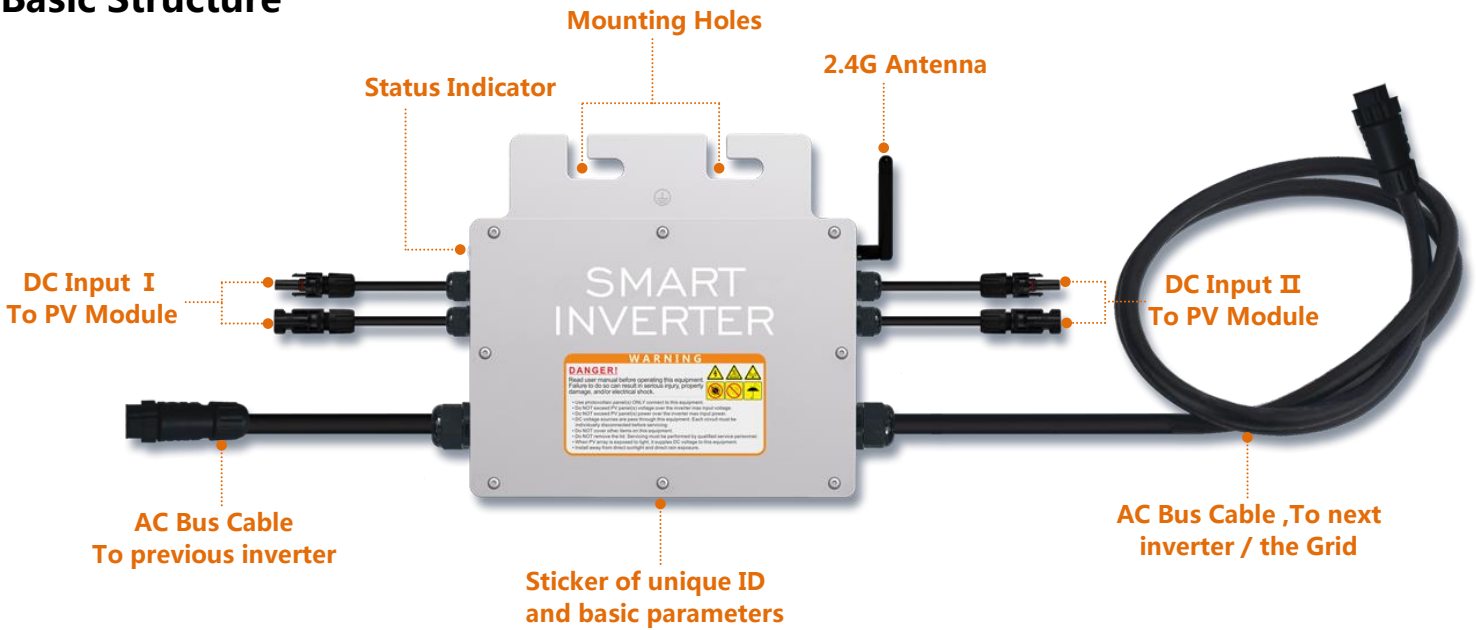
PV Smart Microinverter

SG700 Series

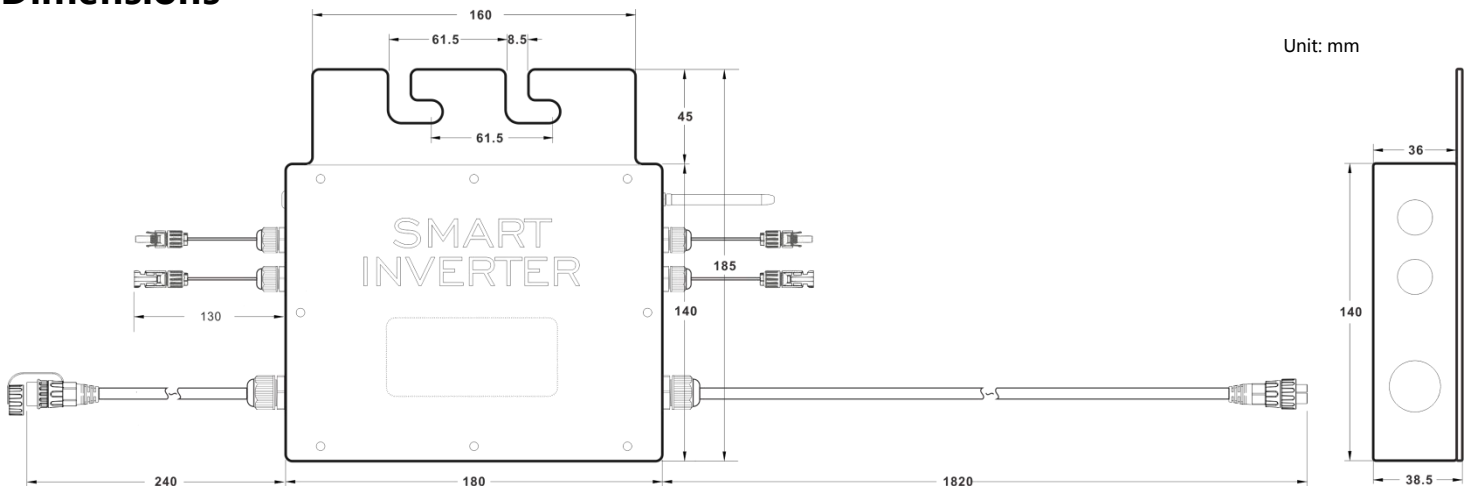


- Single unit connects up to two PV modules
- Maximum 700W AC output power
- Single-phase output, Flexible 3-phase PV systems
- 2.4G wireless communication and monitoring
- Up to 7 units (230V) per branch
- Customizable various input (DC, PV) voltage range
- Integrated AC bus cable, Ready-To-Use
- Low cost, Easy installation

Basic Structure



Dimensions



SG700 Series PV Smart Microinverter - Parameter Table

Product Series	SG700 Series
Model	SG700MD (Regular)
Input Data(DC,PV)	
Number of Input MC4 Connector	2 set
MPPT Voltage Range	24V-40V
Operation Voltage Range	18V-50V
Maximum Input Voltage	50V
Startup Voltage	18V
Maximum Input Power	2*350W
Maximum Input Current	2*14A
Output Data(AC)	
Single-Phase Grid Type	120V & 230V
Rated Output Power	650W
Maximum Output Power	700W
Nominal Output Current	@120VAC : 5.4A / @230VAC : 2.8A
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 : 7 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)	185mm x 180mm x 38.5mm (not include connectors and cable)
Weight	1.5kg
Max Current of AC Bus Cable	20A
Waterproof Grade	IP65
Cooling Mode	Natural Convection - No Fans
Other Features	
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	CE etc.

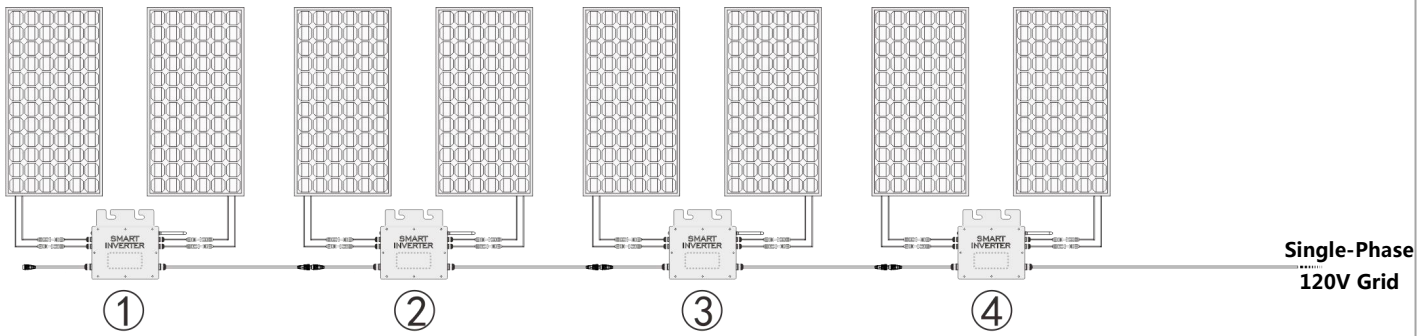
**** Specifications subject to change without notice****

Installation Schematic

SG700 Series Microinverter

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Single-Phase 120V

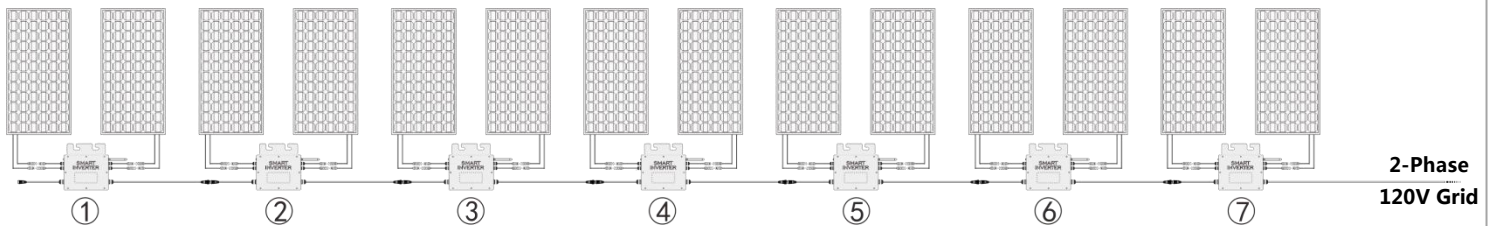


1. SG700 Series @Single-Phase 120V grid, Maximum **4** units SG700 Microinverters per branch.
2. The max DC input power of each inverter is **700W** (the PV module max output power is 2*350W).
3. The **VOC** of PV modules should not be greater than the max DC input voltage of Microinverters.

SG700 Series Microinverter

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

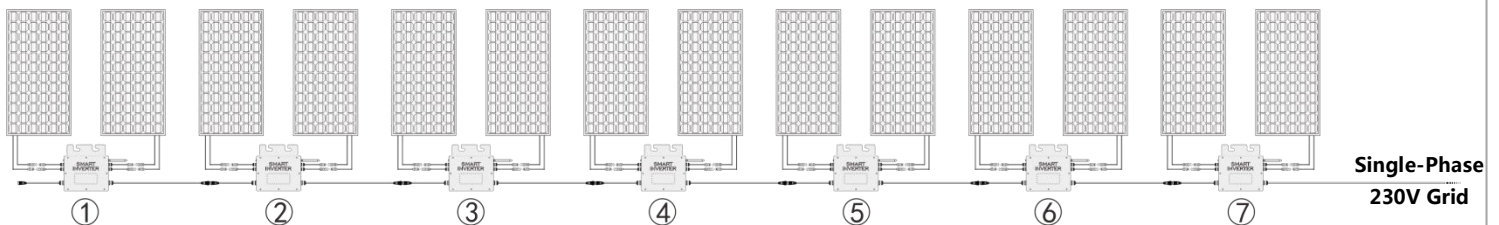


1. SG700 Series @2-Phase 208/240V grid, Maximum **7** units SG700 Microinverters per branch.
2. The max DC input power of each inverter is **700W** (the PV module max output power is 2*350W).
3. The **VOC** of PV modules should not be greater than the max DC input voltage of Microinverters.

SG700 Series Microinverter

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Single-Phase 230V



1. SG700 Series @Single-Phase 230V grid, Maximum **7** units SG700 Microinverters per branch.
2. The max DC input power of each inverter is **700W** (the PV module max output power is 2*350W).
3. The **VOC** of PV modules should not be greater than the max DC input voltage of Microinverters.

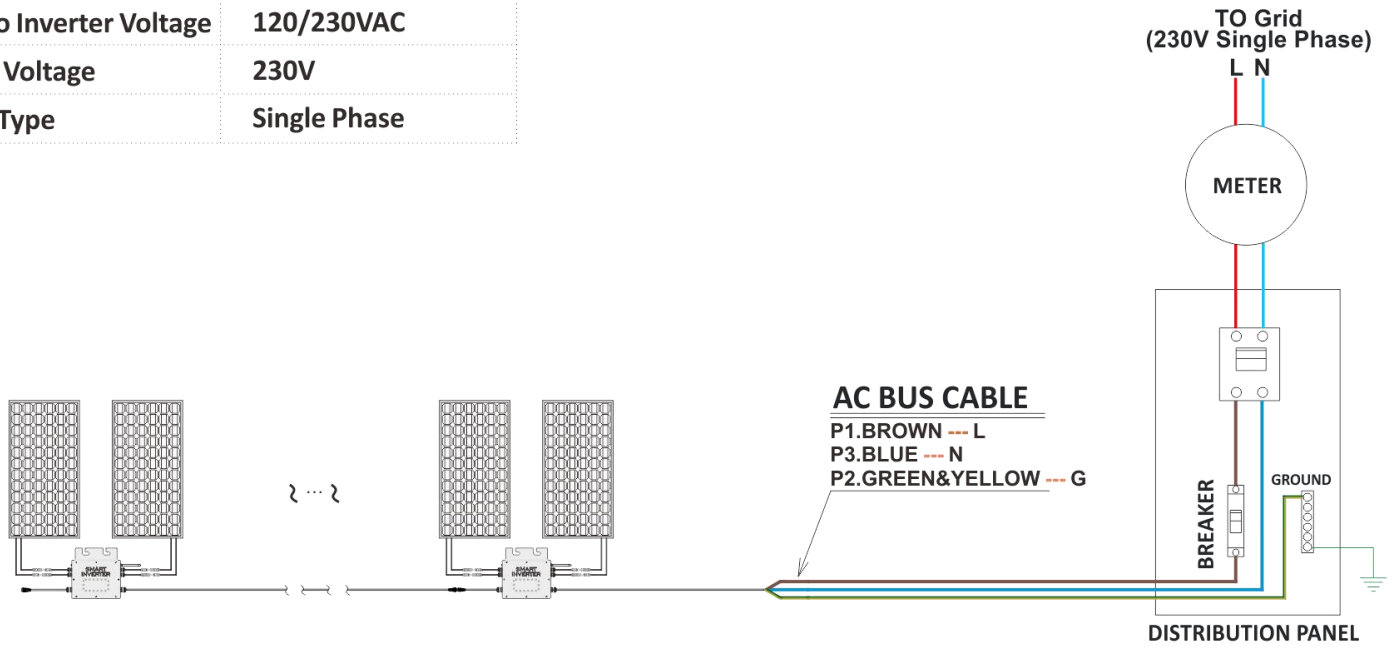
Wiring Schematic

SG700 Series Microinverter

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Single-Phase 230V

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

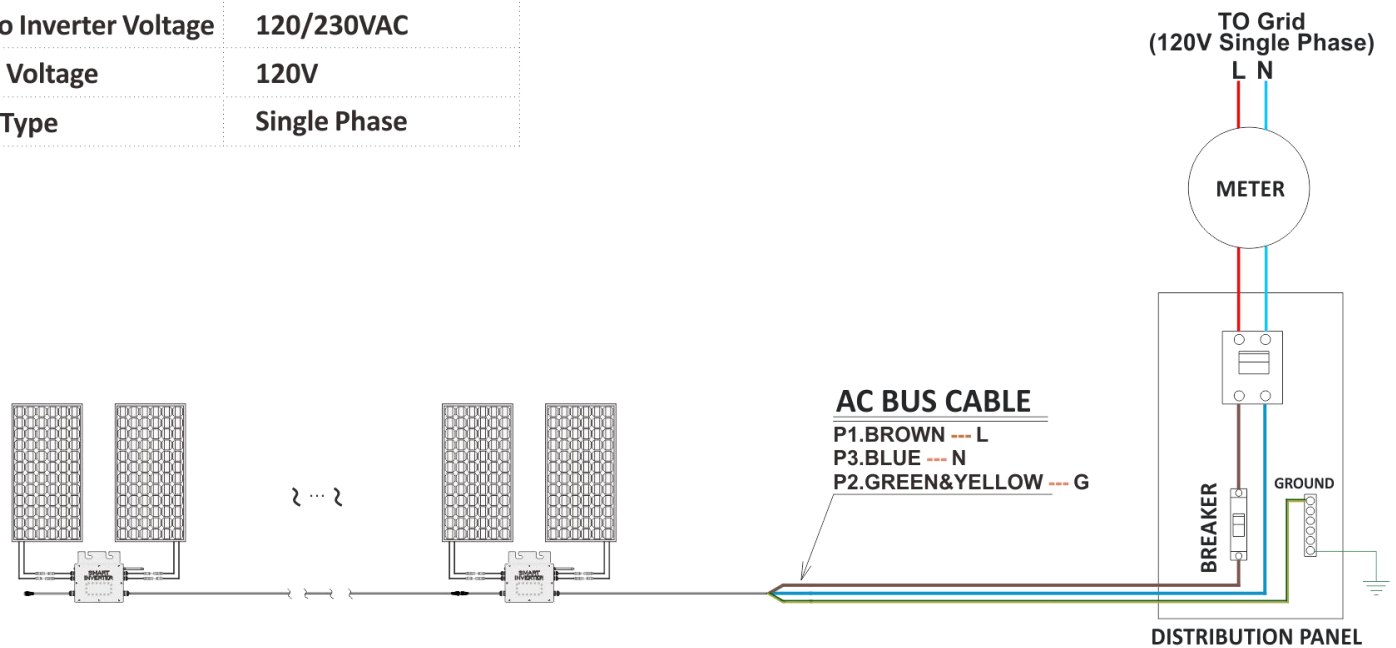


SG700 Series Microinverter

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Single-Phase 120V

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

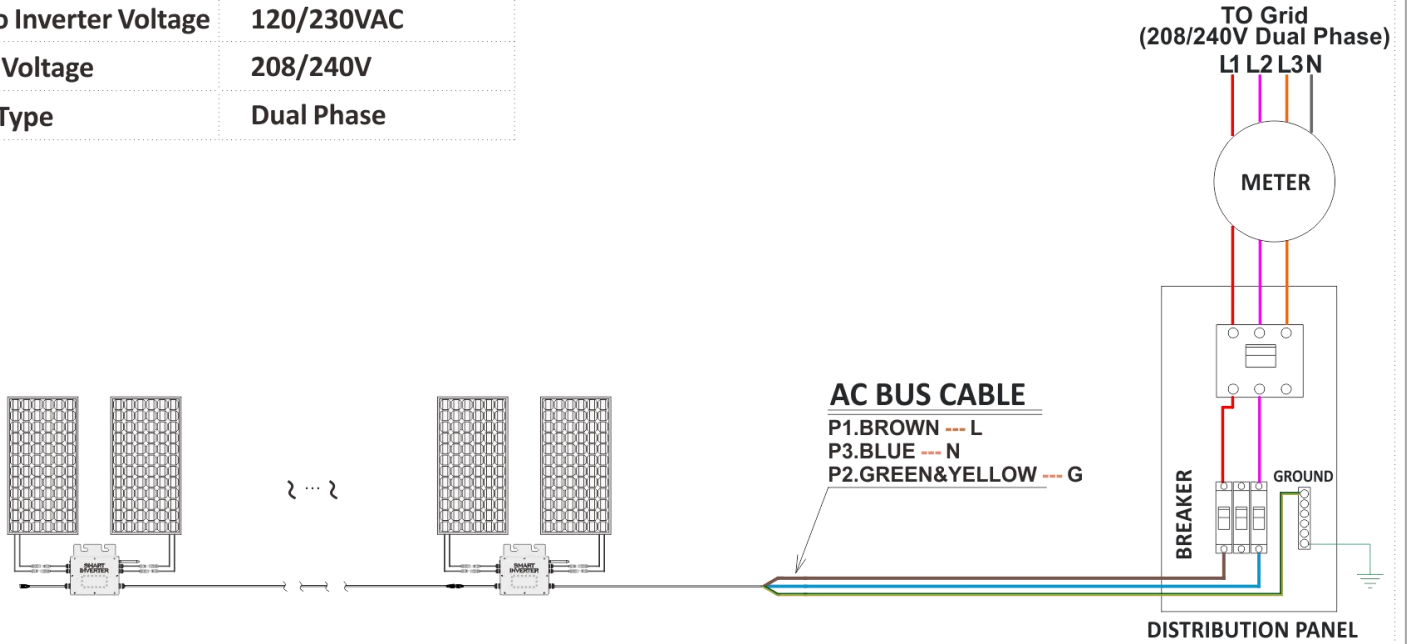


SG700 Series Microinverter



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

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

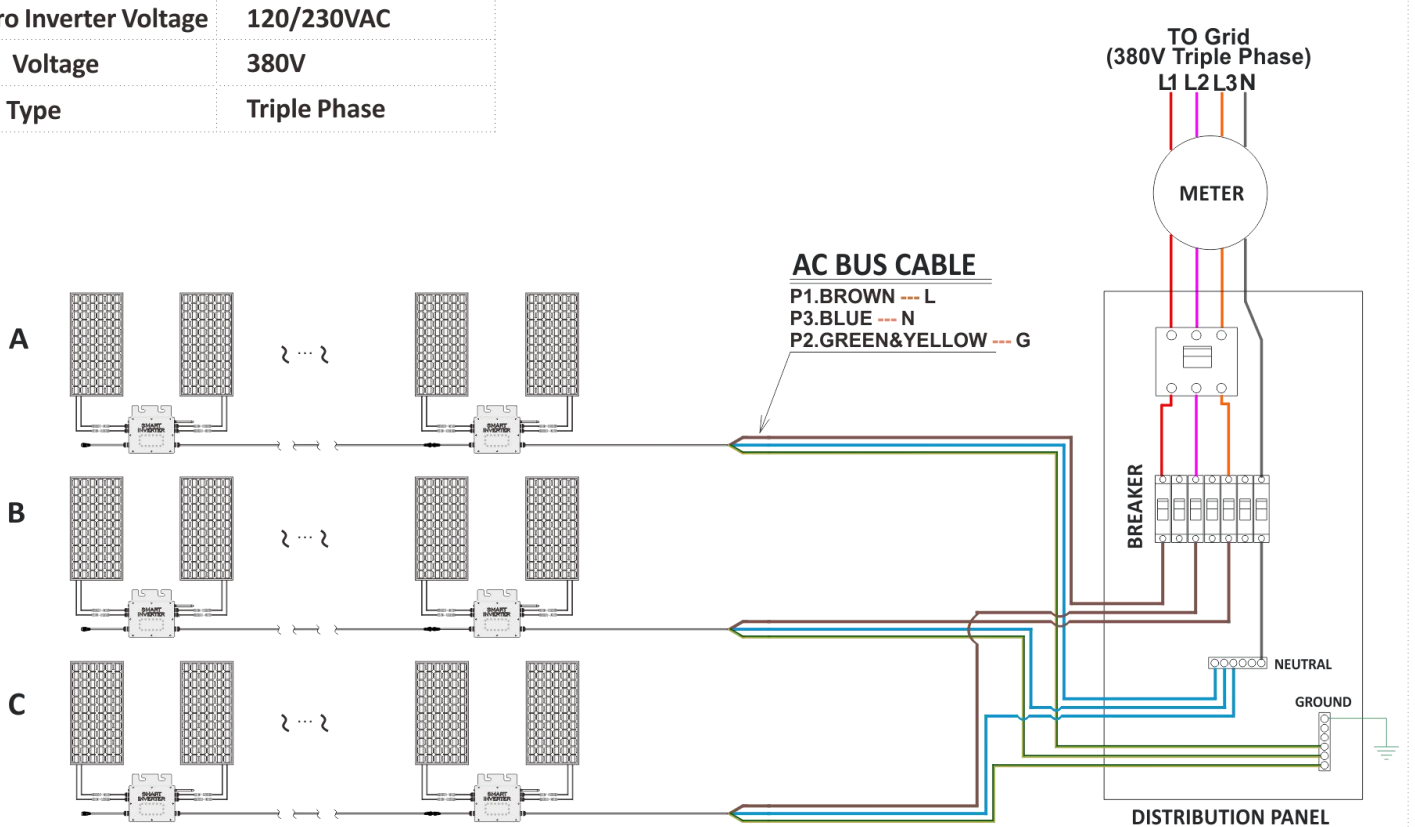


SG700 Series Microinverter



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

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

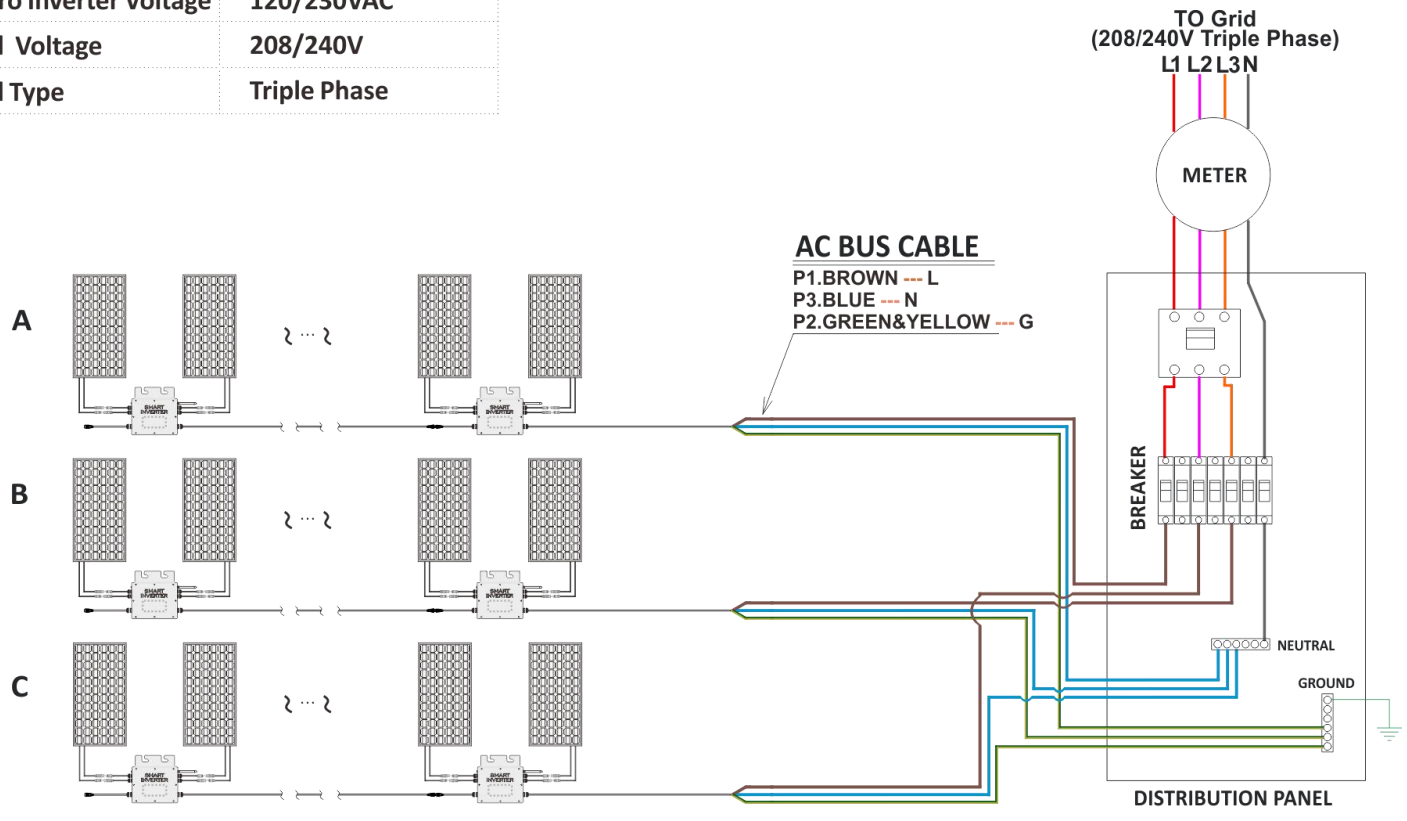


SG700 Series Microinverter



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

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



SG700 Series Microinverter



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

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

