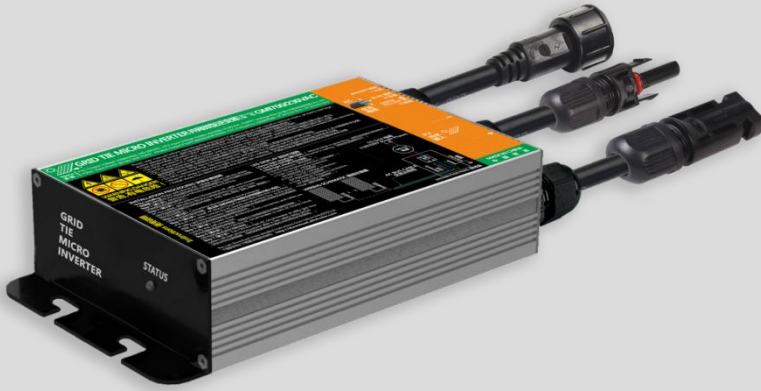


GMI500-700 Series

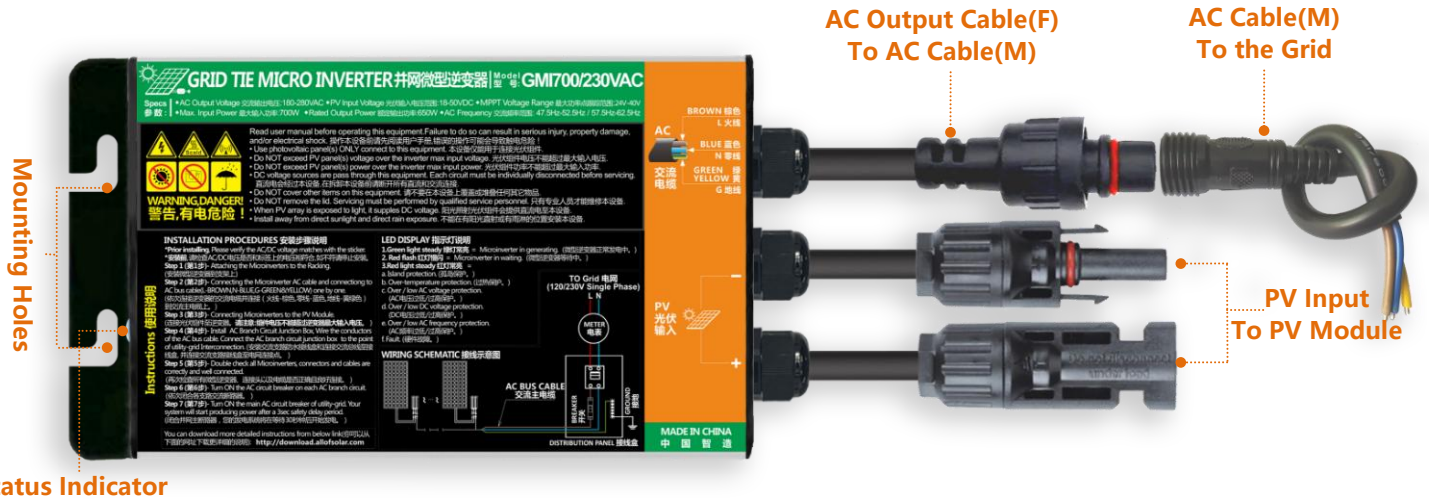
PV Grid Tie Microinverter

GMI500-700 Series

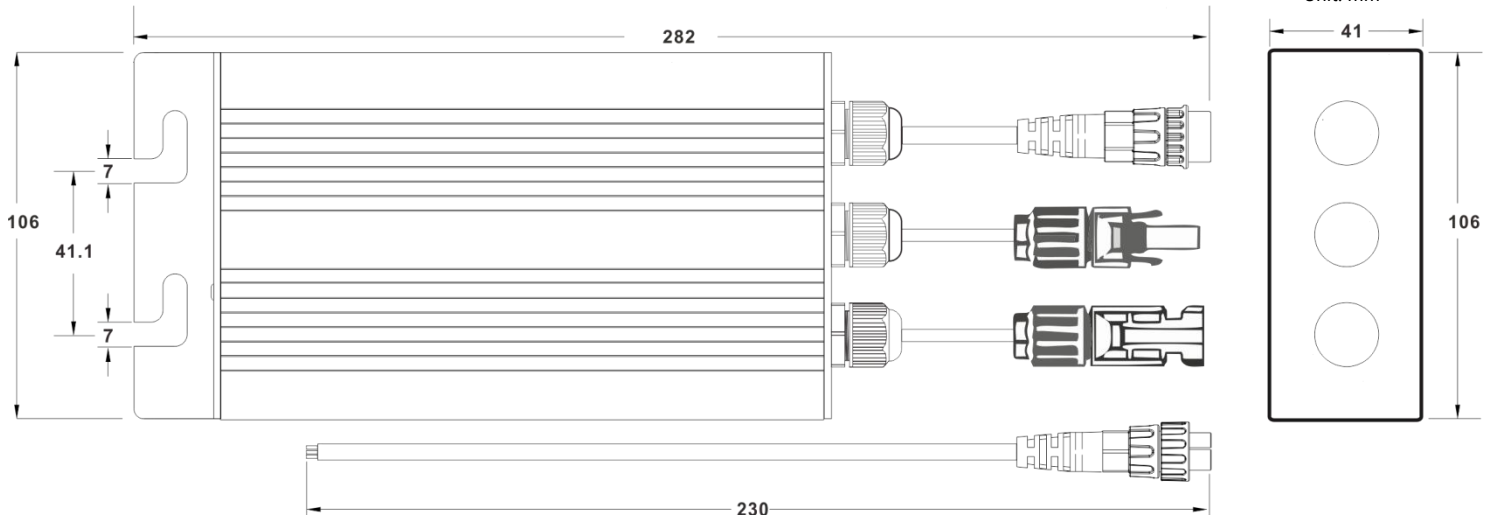
- Single unit connects to two PV modules
- Maximum 500/600/700W AC output power
- Single-phase output, Flexible 3-phase PV systems
- Customizable various input (DC, PV) voltage range
- Ready-To-Use
- Low cost, Easy installation



Basic Structure



Dimensions

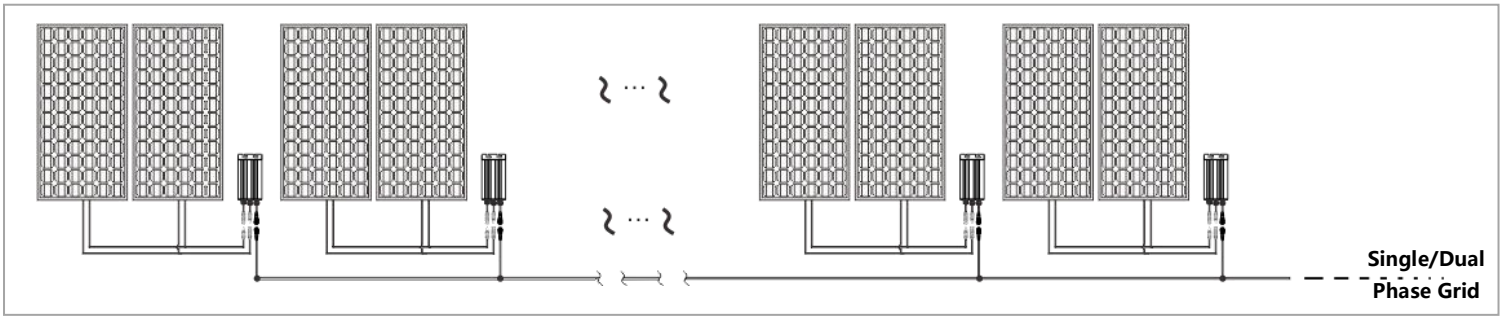


GMI500-700 Series PV Grid Tie Microinverter - Parameter Table

| Product Series | GMI500-700 Series | | |
|-------------------------------------|--|---------------------------|---------------------------|
| Model | GMI500 | GMI600 | GM700 |
| Input Data(DC,PV) | | | |
| Number of Input MC4 Connector | 1 set | | |
| MPPT Voltage Range | 24V-40V | | |
| Operation Voltage Range | 18V-50V | | |
| Maximum Input Voltage | 50V | | |
| Startup Voltage | 18V | | |
| Maximum Input Power | 500W | 600W | 700W |
| Maximum Input Current | 20A | 24A | 28A |
| Output Data(AC) | | | |
| Single-Phase Grid Type | 120V / 230V | | |
| Rated Output Power | 490W | 580W | 650W |
| Maximum Output Power | 500W | 600W | 700W |
| Nominal Output Current | 120V : 4.08A/230V : 2.13A | 120V : 4.83A/230V : 2.52A | 120V : 5.41A/230V : 2.82A |
| 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% | | |
| Efficiency | | | |
| Peak Efficiency | 92% | | |
| CEC Weighted Efficiency | @120VAC : 90% / @230VAC : 90.5% | | |
| 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) | 41mm x 106mm x 282mm | | |
| Weight | 0.95kg | | |
| Waterproof Grade | IP55 | | |
| Cooling Mode | Natural Convection - No Fans | | |
| Other Features | | | |
| Transformer Design | High Frequency Transformers, Galvanic ally 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. | | |

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

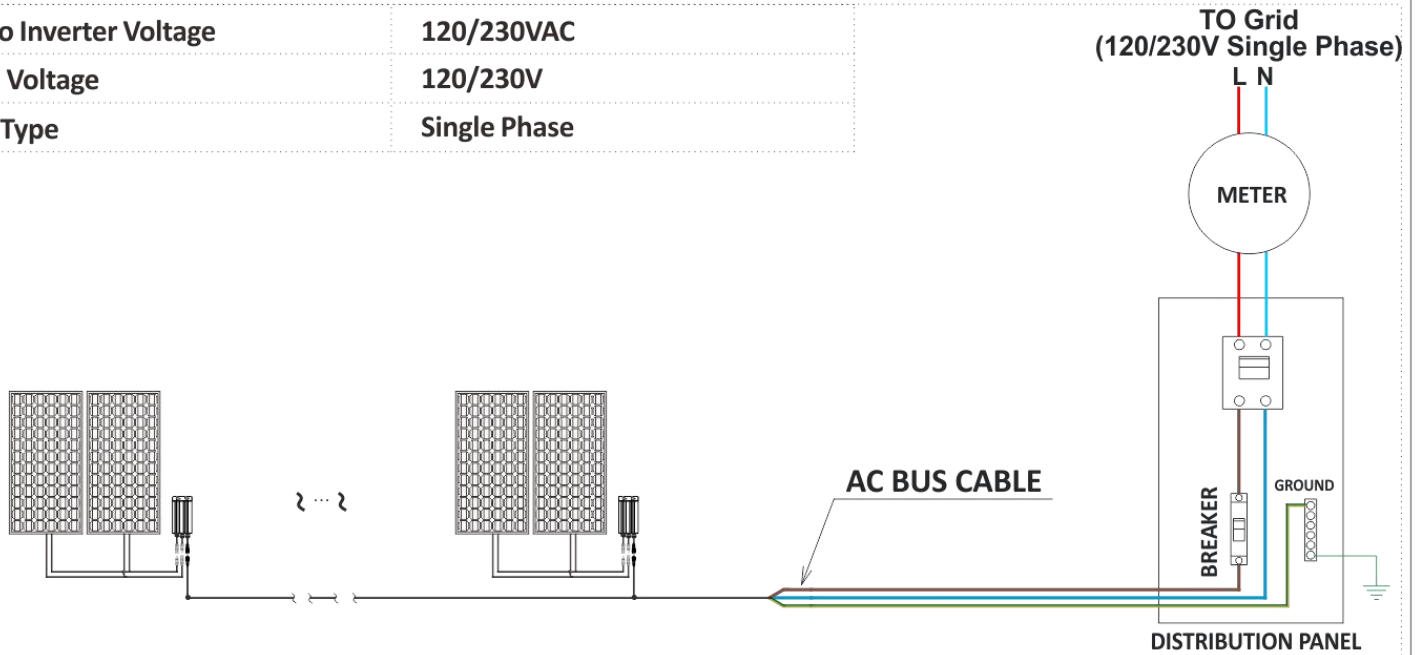
Installation Schematic



Wiring Schematic

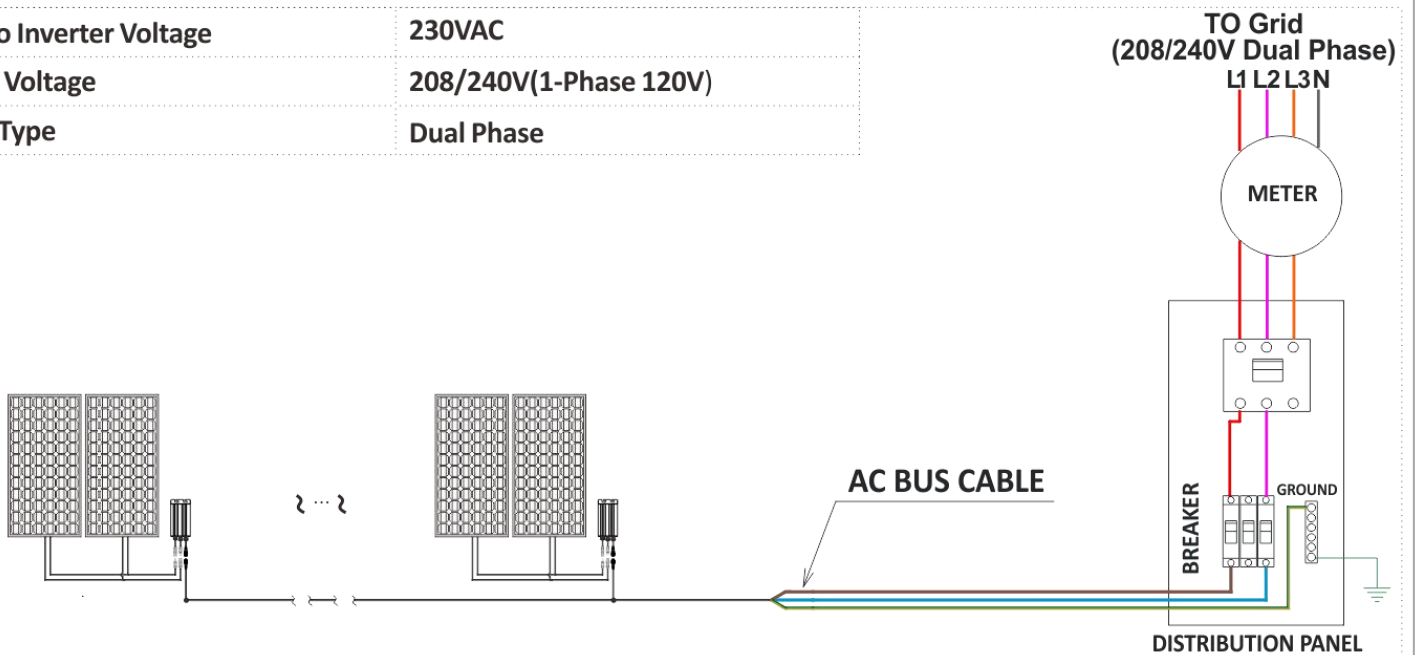
GMI500-700 Series-120/230VAC @ Single Phase 120/230V

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



GMI500-700 Series-230VAC @ 2-Phase 208/240V

| | |
|------------------------|------------------------|
| Micro Inverter Voltage | 230VAC |
| Grid Voltage | 208/240V(1-Phase 120V) |
| Grid Type | Dual Phase |



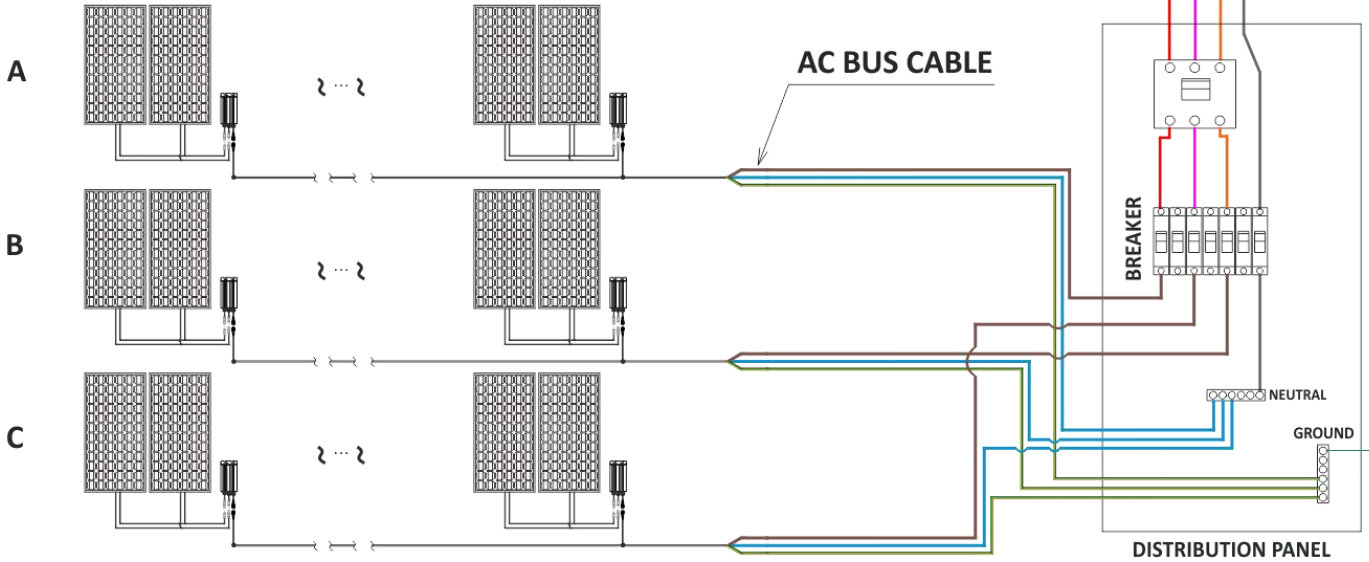
GMI500-700 Series-120VAC @ 3-Phase 208/240V

| | |
|------------------------|------------------------|
| Micro Inverter Voltage | 120VAC |
| Grid Voltage | 208/240V(1-Phase 120V) |
| Grid Type | Triple Phase |

TO Grid
(208/240V Triple Phase)

L1 L2 L3 N

METER



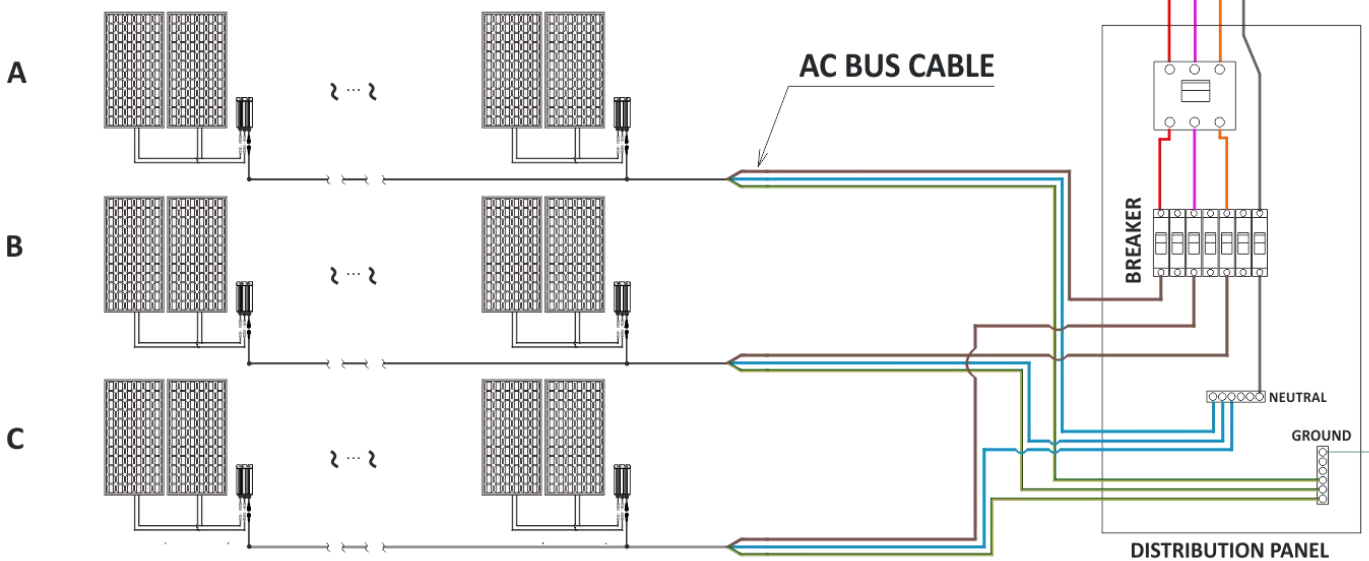
GMI500-700 Series-230VAC @ 3-Phase 380V

| | |
|------------------------|--------------------|
| Micro Inverter Voltage | 230VAC |
| Grid Voltage | 380V(1-Phase 230V) |
| Grid Type | Triple Phase |

TO Grid
(380V Triple Phase)

L1 L2 L3 N

METER



GMI500-700 Series-230VAC @ 3-Phase 208/240V

| | |
|------------------------|------------------------|
| Micro Inverter Voltage | 230VAC |
| Grid Voltage | 208/240V(1-Phase 120V) |
| Grid Type | Triple Phase |

TO Grid
(208/240V Triple Phase)

L1 L2 L3 N

METER

A

B

C

AC BUS CABLE

BREAKER

GROUND

DISTRIBUTION PANEL

