

# New Energy + New Life

## GMI500-700 Series

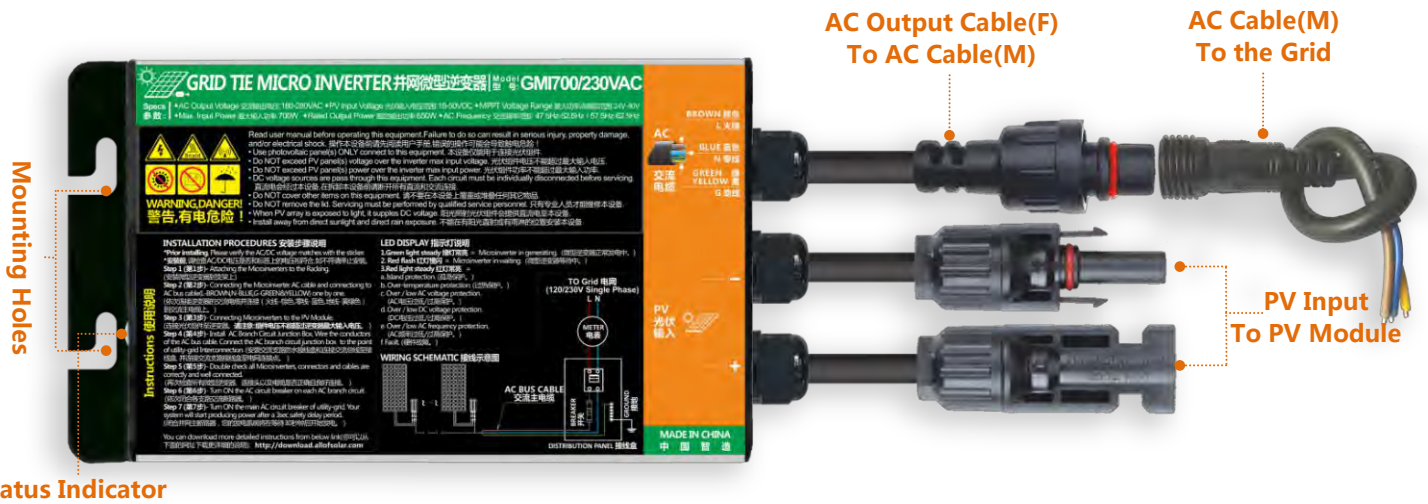


## PV Grid Tie Microinverter

### 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

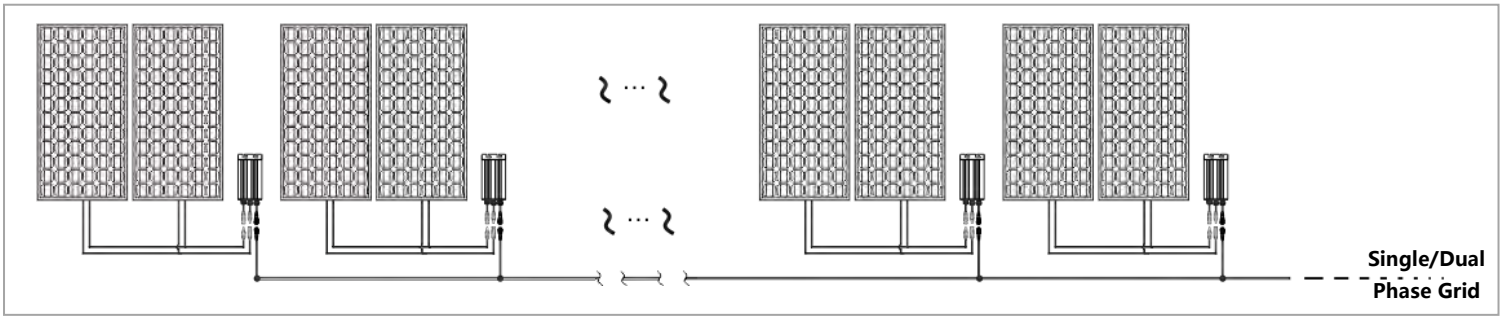


# GMI500-700 Series PV Grid Tie Microinverter - Parameter Table

Product Series	GMI500-700 Series		
Model	GMI500	GMI600	GM700
<b>Input Data(DC,PV)</b>			
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
<b>Output Data(AC)</b>			
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%		
<b>Efficiency</b>			
Peak Efficiency	92%		
CEC Weighted Efficiency	@120VAC : 90% / @230VAC : 90.5%		
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)	41mm x 106mm x 282mm		
Weight	0.95kg		
Waterproof Grade	IP55		
Cooling Mode	Natural Convection - No Fans		
<b>Other Features</b>			
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\*\***

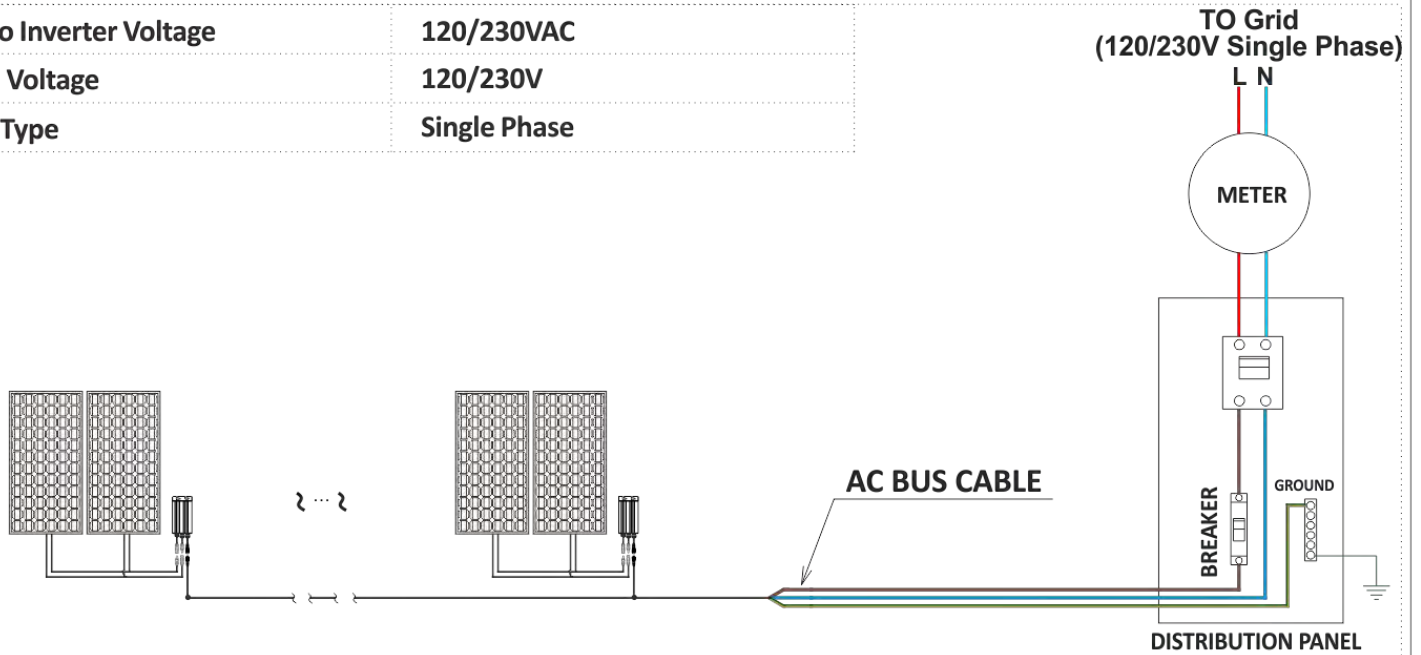
# Installation Schematic



# Wiring Schematic

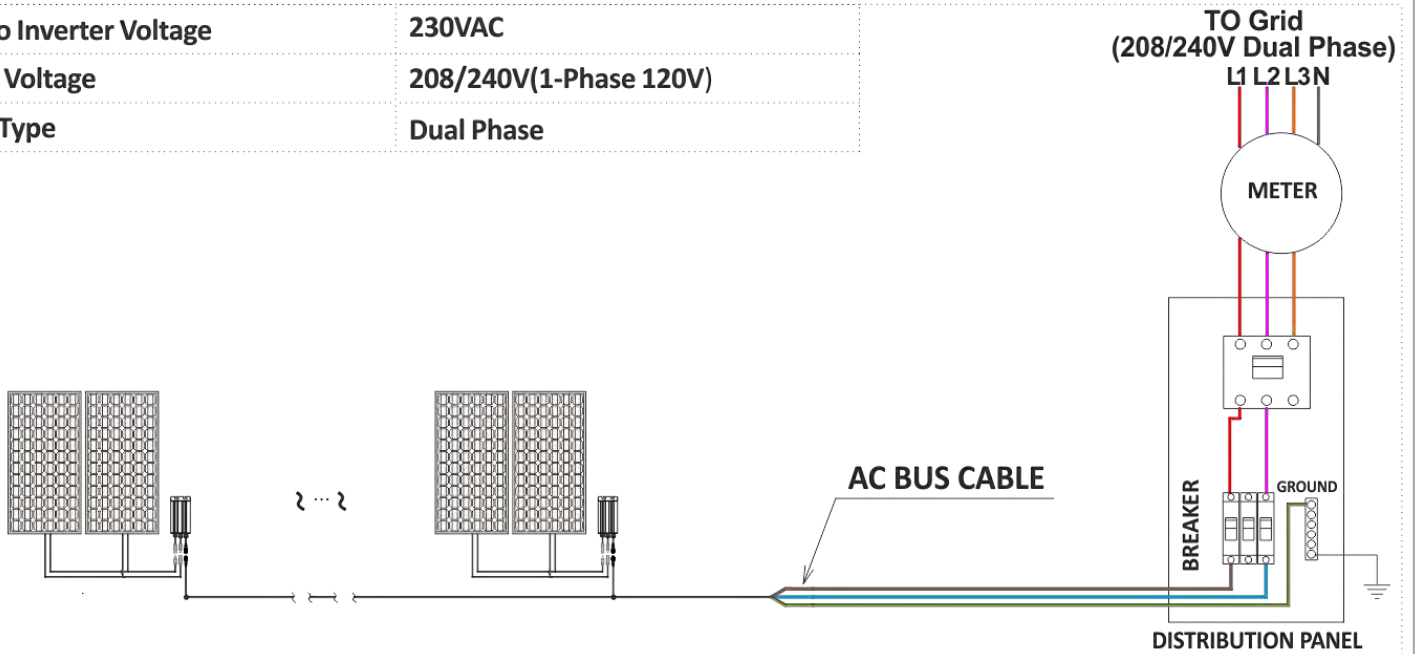
## GMI500-700 Series-120/230VAC @ Single Phase 120/230V

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



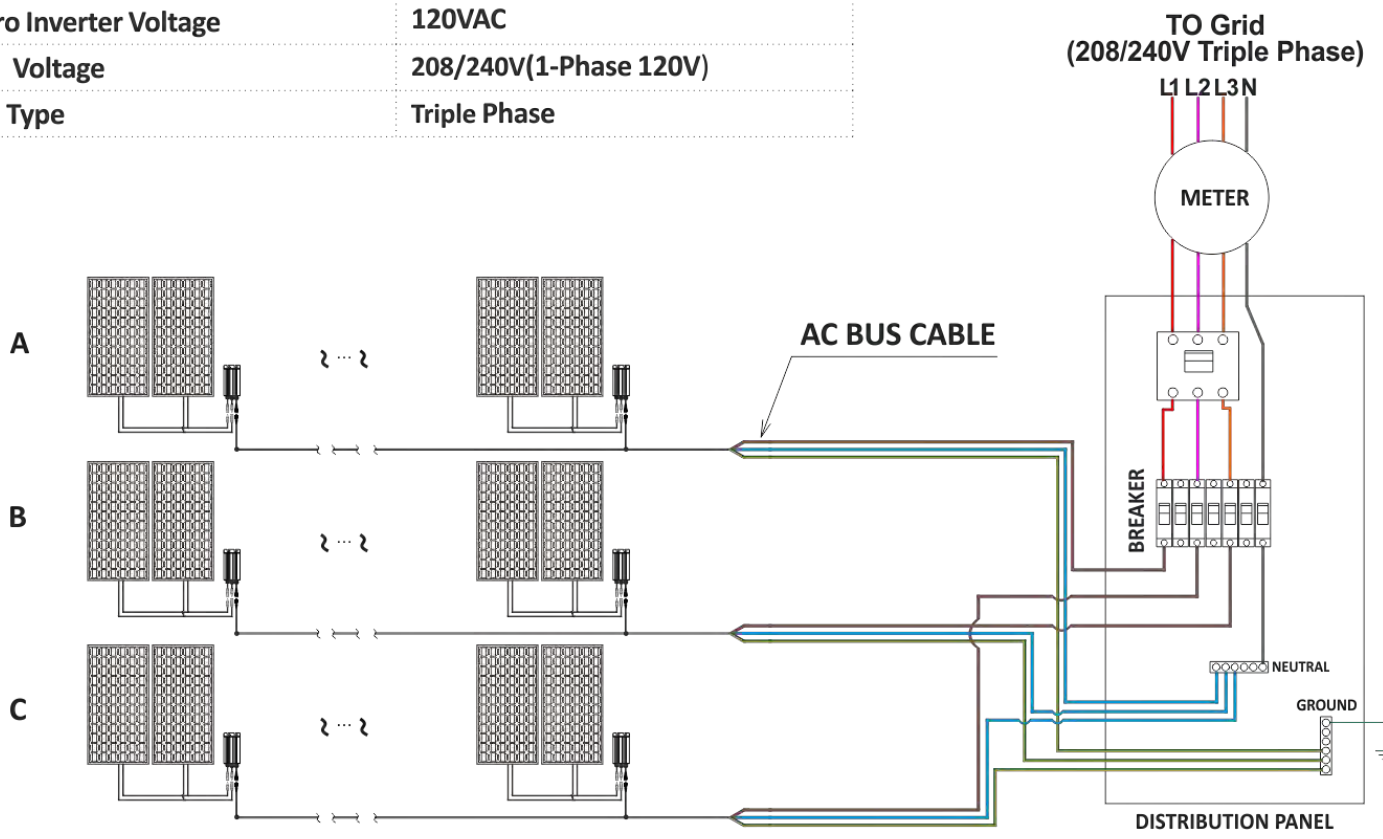
## GMI500-700 Series-230VAC @ 2-Phase 208/240V

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



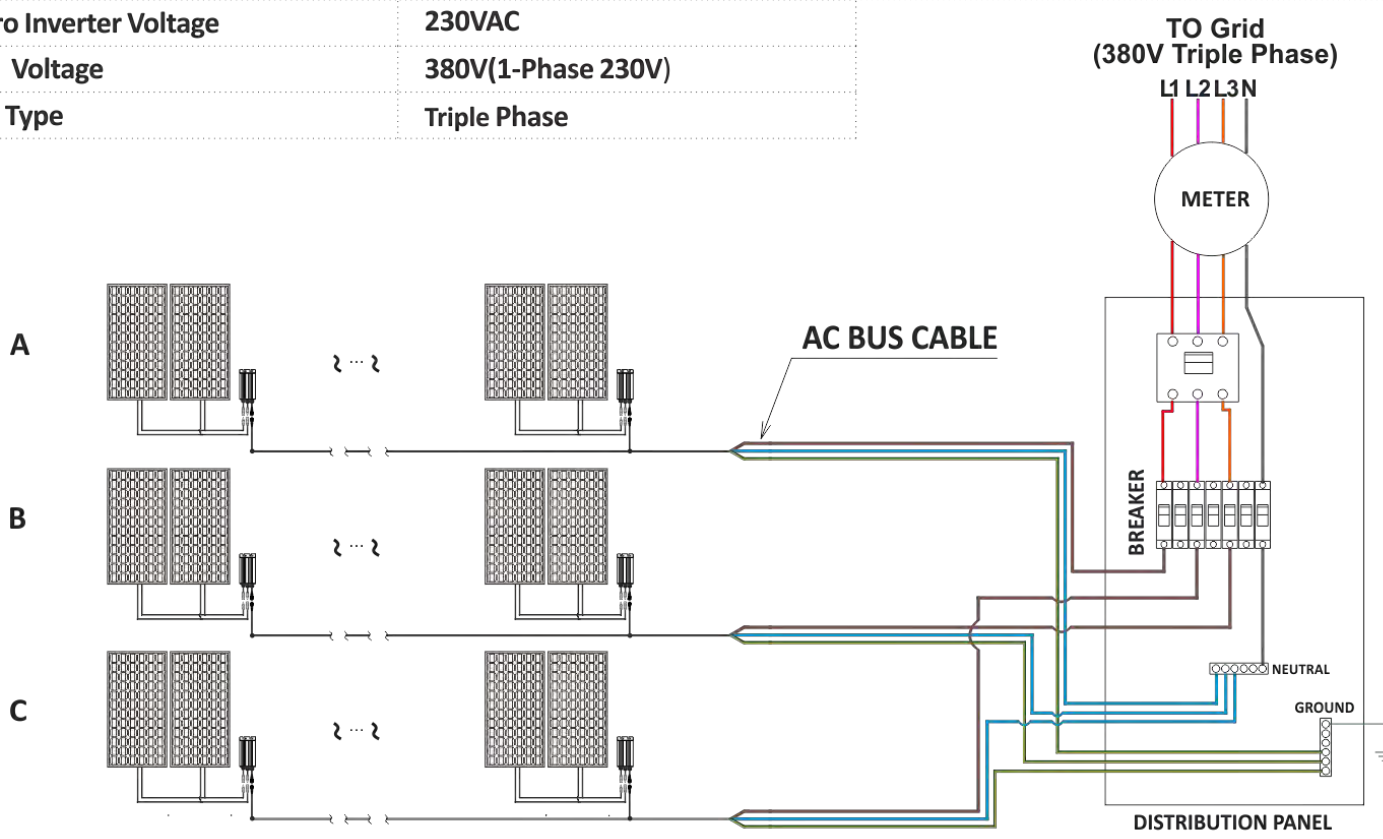
### GMI500-700 Series-120VAC @ 3-Phase 208/240V

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



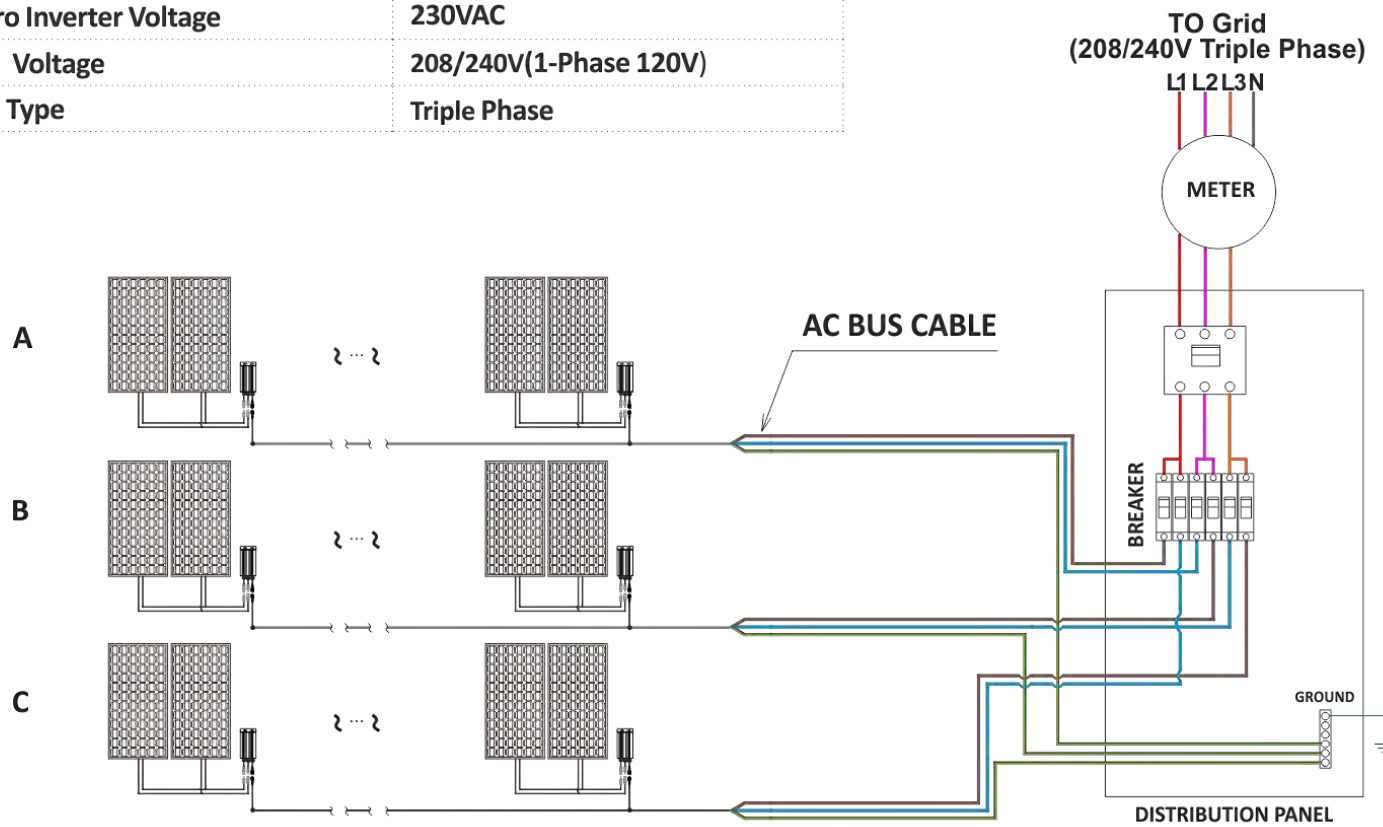
### GMI500-700 Series-230VAC @ 3-Phase 380V

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



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

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





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# Certificate of Compliance

**Certificate No.** : BSTXD210521239201SC  
**Applicant** : XININGSHUN NEW ENERGY TECHNOLOGY CO., LTD.  
8F, No. Tianhang Road, Dalangshan Town, Dongguan, Guangdong  
523508, China  
**Manufacturer** : XININGSHUN NEW ENERGY TECHNOLOGY CO., LTD.  
8F, No. Tianhang Road, Dalangshan Town, Dongguan, Guangdong  
523508, China  
**Product Name** : GRID TIE MICRO POWER INVERTER  
**Trade Name** : NewEnergyTek  
**Main Test Model** : GMI700  
**Additional Model** : GMI120, GMI150, GMI180, GMI260, GMI300, GMI350,  
GMI500, GMI600  
**Test Standard** : EN 62368-1:2014+A11:2017  
**As shown in the  
Test Report No.** : BSTXD210521239201SR

The EUT described above has been tested by us with the listed standards and found in compliance with the council LVD directive 2014/35/EU. It is possible to use CE marking to demonstrate the compliance with this LVD Directive.

The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole production



**Christina Deng**  
Manager  
May.14, 2021

BST Testing (Shenzhen) Co.,Ltd.

Add: No.7, New Era Industrial Zone, Guantian, Bao'an District, Shenzhen, Guangdong, China :

Certificate Search: <http://www.bst-lab.com>, Tel:400-962-6168, 8009990305, E-mail:christina@bst-lab.com



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# Certificate of Compliance

**Certificate No.** : BSTXD210521239201EC  
**Applicant** : SHENZHEN NEW ENERGY TECHNOLOGY CO., LTD.  
#1-40 Tianfeng Road, Dalangshan Town, Dongguan, Guangdong  
523500, China  
**Manufacturer** : SHENZHEN NEW ENERGY TECHNOLOGY CO., LTD.  
#1-40 Tianfeng Road, Dalangshan Town, Dongguan, Guangdong  
523500, China  
**Product Name** : GRID TIE MICRO POWER INVERTER  
**Trade Name** : NewEnergyTek  
**Main Test Model** : GMI700  
**Additional Model** : GMI120, GMI150, GMI180, GMI260, GMI300, GMI350,  
GMI500, GMI600  
**Test Standard** : EN 55032:2015+A11:2020  
EN IEC61000-3-2:2019  
EN 61000-3-3:2013+A1:2019  
EN 55035:2017+A11:2020  
**As shown in the  
Test Report No.** : BSTXD210521239201ER

The EUT described above has been tested by us with the listed standards and found in compliance with the council EMC directive 2014/30/EU. It is possible to use CE marking to demonstrate the compliance with this EMC Directive.

The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole production.



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