

VERIFICATION OF COMPLIANCE

No.: GZES2012034956PV


Applicant: Maitian Energy Co., Ltd.
Room A203, Building C, No 205, Binghai Six Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang Province, China

Manufacturer: Maitian Energy Co., Ltd.
Room A203, Building C, No 205, Binghai Six Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang Province, China

Product Name: PV Grid-tied Inverter

Product Description: Inverter used in PV system

Model No.: T5, T6, T8, T10, T12, T15, T17, T20, T25

Trade Mark: 

Rating: Refer to page 2

Intended Use: PV System

Protection against Electric Shock: Class I

Additional Information (if any): IP 65
Firmware version: 3.04/3.00/3.01

Sufficient samples of the product have been tested and found to be in conformity with

Test Standard: Refer to page 2
as shown in the

Test Report Number(s): GZES201203495601, GZES201203495602
GZES201203495603, GZES201203495604

This Verification of Compliance has been granted to the applicant based on the results of tests, performed by Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards.


David Guo
Senior Technical Manager
SGS-CSTC



2020-12-28

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Other information added :
Ratings

Model	T5	T6	T8	T10
DC Input				
Max. DC voltage	1100V			
Rated input voltage	600V			
Start-up operating voltage	180V			
MPPT voltage range	160V~850V			
Full power MPPT voltage range	210-850 Vdc	250-850 Vdc	330-850 Vdc	410-850 Vdc
Max. input current	12.5A / 12.5A			
Max. input short circuit current	16.25A / 16.25A			
AC Output				
Rated power	5000W	6000W	8000W	10000W
Max. AC power	5500VA	6600VA	8800VA	11000VA
Max. output current	8.0 A	9.6 A	12.8 A	15.9 A
Nominal grid voltage	3/N/PE, 400V			
Nominal output frequency	50Hz			
Output power factor	1 (Adjustable from 0.8 leading to 0.8 lagging)			
Operating temperature range	-20+60°C (derating at +45°C)			
Ingress protection	IP65			
Protective class	Class I			



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Model	T12	T15	T17	T20	T25
DC Input					
Max. DC voltage	1100V				
Rated input voltage	600V				
Start-up operating voltage	180V				
MPPT voltage range	160V~850V				
Full power MPPT voltage range	490-850 Vdc	410-850 Vdc	350-850 Vdc	410-850 Vdc	410-850 Vdc
Max. input current	12.5A / 12.5A	25A / 12.5A	25A / 25A	25A / 25A	25A / 25A
Max. input short circuit current	16.25A/16.25A	32.5A/16.25A	32.5A/32.5A	32.5A/32.5A	32.5A/32.5A
AC Output					
Rated power	12000W	15000W	17000W	20000W	25000W
Max. AC power	13200VA	16500VA	18700VA	22000VA	27500VA
Max. output current	19.1 A	23.9 A	27.1 A	31.9 A	39.9 A
Nominal grid voltage	3/N/PE, 400V				
Nominal output frequency	50Hz				
Output power factor	1 (Adjustable from 0.8 leading to 0.8 lagging)				
Operating temperature range	-20+60°C (derating at +45°C)				
Ingress protection	IP65				
Protective class	Class I				

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Test Standards: IEC 60068-2-1:2007. Environmental testing. Part 2-1: Tests. Test Ae: Cold.
IEC 60068-2-2:2007. Environmental testing. Part 2-2: Tests. Test Be: Dry heat.
IEC 60068-2-14:2009. Environmental testing. Part 2-14: Tests. Test Nb: Change of temperature.
IEC 60068-2-30:2005. Environmental testing. Part 2-30: Tests. Test Db-Variant 1: Damp heat, cyclic (12 h + 12 h cycle).
IEC 61683:1999. Photovoltaics systems - Power conditioners - Procedure for measuring efficiency.
IEC 62116:2014. Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters.
IEC 61727:2004. Photovoltaics (PV) systems - Characteristics of the utility interface.


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