

Technical Report No.: 701262310301-00

Date: 2023-06-01

Client: G-STAR PTE. LTD. (120808)
6 RAFFLES QUAY #14-06
Singapore 048580
SINGAPORE

Manufacturer: G-STAR PTE. LTD. (120808)
6 RAFFLES QUAY #14-06
Singapore 048580
SINGAPORE

Factory: LONGi Solar Technology (Zhejiang) Co., Ltd. (099626)
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LONGi Photovoltaic Technology (Taizhou) Co., Ltd. (099605)
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VINA SOLAR TECHNOLOGY COMPANY LIMITED (090968)
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LONGi Solar Technology (Xianyang)Co., Ltd. (108363)
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CHINA

LONGi Solar Technology (Wuhu) Co., Ltd. (120099)
1-57, No.5 Qijing First Road, Longshan Street, Economic and
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PEOPLE'S REPUBLIC OF CHINA

Test object: Product: Photovoltaic modules
Model: See clause 1.4

Test specification: IEC 61215-1:2016 (Ed 1);
IEC 61215-2:2016 (Ed 1);
IEC 61215-1-1:2016 (Ed 1);
EN 61215-1:2016, EN 61215-1-1:2016, EN 61215-2:2017
IEC 61730-1:2016 (Ed 2); EN 61730-1:2018;
EN IEC 61730-1:2018/AC:2018-06
IEC 61730-2:2016 (Ed 2); EN 61730-2:2018;
EN IEC 61730-2:2018/AC:2018-06

Purpose of examination:

- Testing (visual / partial) for compliance with specified requirements to assess conformity with the essential safety and health requirements of the following European Directives: Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits
- Testing and evaluation (visual / partial) according to the test specification

Test result: The test results show that the presented product is in compliance with the above listed test specifications.

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question. It does not imply a general statement regarding the quality of products from regular production. For further details please see testing and certification regulation, chapter A-3.4.

1. Description of the test object

1.1 Picture(s)

N/A

1.2 Function

Manufacturer's specification for intended use:

The PV modules for electricity generation systems with max. voltage of 1500 V DC

Manufacturer's specification for predictive use:

N/A

1.3 Consideration of the foreseeable use

- Not applicable
- Covered through the applied standard
- Covered by the following comment*
- Covered by attached risk analysis

1.4 Technical Data

Model	:	GSY7072M-xxxBW, (xxx=555-600, in steps of 5), GSY7054M-xxxBB, (xxx=410-440, in steps of 5), GSY7054M-xxxBW, (xxx=420-450, in steps of 5), xxx stands for rated output power at STC.
Rated output Power at STC	:	Same as above
Max. system voltage	:	1500 V DC

2. Order

2.1 Date of Purchase Order, Customer's Reference

The order dated 2023-05-05

2.2 Test Sample(s)

- Reception date(s):
N/A
- Location(s) of reception:
N/A
- Condition of test sample(s):
N/A

2.3 Date(s) of Testing

N/A

2.4 Location(s) of Testing

N/A

2.5 Points of Non-Compliance or Exceptions of the Test Procedure

- N/A

3. Test Results

- “Decision rule according to IEC Guide 115:2021, clause 4.4.3, 4.5.1 was applied.
- “Decision rule (based on ILAC-G8) for an upper specification limit (A lower limit or specification with an up-per and a lower limit is treated similarly.):
 - Compliance with the requirement: If a specification limit is not breached by a measurement result plus the expanded uncertainty with a 95% coverage probability, then compliance with the specification will be stated (e.g. Pass).

3.1 Positive Test Results

Test specification(s)	Report no. / Rev. No.	Date	Remark
Electrical safety:	704061700516-26	2023-05-19	N/A
Mechanical safety:	704061700516-26	2023-05-19	N/A

3.2 Points of Non-Compliance according to the test specification

- None

4. Remark

4.1 General

Co-license

Apply for co-license according to main license No.: Z2 099333 0045 Rev. 26

The user manual has been examined according to the minimum requirements described in the product standard. The manufacturer is responsible for the accuracy of further particulars as well as of the composition and layout.

4.2 Factory surveillance cycle

Your production facility is currently on a

- Annual (12 month)
- Bi-Annual (6 month)
- Quarterly (3 month)
- surveillance cycle.

4.3 Additional information for routine tests to be performed by the factory(ies)

Routine tests for electrical appliances / equipment:

Routine tests requirements for production are described in 70.197.22.099626.06, 70.197.23.099605.07, 70.197.23.090968.36, 71.197.22.002875.06, 70.197.23.102892.05, 70.197.23.108647.04, 70.197.22.108363.03, 70.197.22.110068.03, 70.197.23.120099.01

5. Documentation

File	File name	Date
Data form (CDF):	701262310301-00	2023-06-01
User manual:	N/A	N/A
Installation manual:	701262310301-00 MAN_TUV MARK_E	2023-06-01

6. Summary

“The test specifications are met”

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Tested by: Yonghui Shang *Yonghui Shang*

Approved by: Gang Huang *Gang Huang*