



Test Certificate No. 7113219352

1. **Details of order:**

The test was order by: **HANGZHOU RELNO STANDARDS TECHNICAL SERVICE CO., LTD**

Address: **Floor 3, Boke Building, No. 9 Xiyuan Road, Xihu District, Hangzhou, Zhejiang, China.**

Date of order: **06.09.2021**

The sample was taken by a representative of the customer

2. **Test of:**

Photovoltaic module

Model : **HTMXXXMH3-72 (1500)**

Manufacturer : **Tangshan Haitai New Energy Technology Co.,Ltd.**

Country of manufacture : **CHINA**

Module type : **Mono-crystalline**

Num. of cells in module : **144**

Overall dimensions : **2094 mm X 1038 mm X 35/40 mm**

3. **Description of sample:**

Date of Sampling : **28.06.2021**

Sampling By : **Customer**

Number of Sampling : **1**

4. **Nature of Test:**

Compliance of the model with the requirements of the International Standards:

IEC 61730 - Photovoltaic (PV) module safety qualification

Part 1: clauses 3,4,5,6,7,8,9,10,11,12

Part 2: clauses 3,6,9,10,11

SI 61215 - Crystalline silicon terrestrial photovoltaic (PV) modules :

clause 10.17 (Hail test) Design qualification and type approval.

5. **Conclusion:**

The module complies with the requirements of the clauses to which they were tested.

Notes: This example is representative for sample modules: **HTMXXXMH3-72 (1500)** (XXX=415-455), IEC1500V. Test report Lab.: TÜV SUD , Test Report No.: **88.216.18.095.08, 88.216.18.095.08_a, 88.216.18.095.11**

This document alone is not used to release goods from customs.

This report refers only to the sample tested and does not refer to other samples of the same product.

This document contains 6 pages, and may be used only in full.

Matthew Skif

Laboratory Technician

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המשרד סוכנות התקינה
מכון התקנים הישראלי

06.09.2021

Test Completion Date: 06.09.2021

6.3.18 / א' 32.7.707 מרהדורה



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6. Tests Results:**Standard IEC 617301 Part 1**

No.	Subject	Results and details of nonconformance	Verdict
3	Application classes		P
4	Construction requirements		P
5	Polymeric material		P
6	Internal wiring and current – carrying parts		P
7	Connections		P
8	Bonding and grounding		P
9	Creepage and clearance distances		P
10	Field wiring compartments with covers		P
11	Marking		P
12	Requirements for supplied documents		P

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Standard IEC 617301 Part 2

No.	Subject and details of nonconformance		Results	Verdict
6	Sampling			P
9	Pass criteria			P
10				P
	Test procedures	+ Tested in practice	MST 01	P
			MST 11	P
			MST 12	P
		Double insulation	MST 13	P
			MST 14	P
			MST 15	P
		Tested in practice >100 MΩ, 8 kV DC	MST 16	P
			MST 17	P
			MST 21	P
			MST 23	P
			MST 26	P
			MST 32	P
11				P
	Component tests		MST 15	P
			MST 33	P
			MST 44	P

Standard IEC 61215

4.1	Hail test	This paragraph is tested in accordance with the method defined in UL Standard 1703 .	P
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מחלקת מכניקה ו' 6.3.18 32.7.707



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Appendix 1

Photo Documentation



Test Completion Date: 06.09.2021

פרוט 32.7.707 מהדורה א', 6.3.18



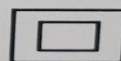
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Haitai Solar

Crystalline Silicon
Photovoltaic Modules

Module Type	HTM455MH3-72(1500)
Rated Maximum Power(Pm)	455W
Tolerance	±3%
Voltage at Pmax(Vmp)	41.14V
Current at Pmax (Imp)	11.07A
Open-Circuit Voltage(Voc)	49.68±3%V
Short-Circuit Current(Isc)	11.59±4%A
Nominal Module Operating Temperature	41±3°C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	20A
Application Class	Class A
Safety Class	Class II
Weight	24.0kg
Dimensions	2094*1038*35mm

STC : AM=1.5 E=1000W/m² TC=25°C



Solar modules generate electricity as soon as they are exposed to light. One module on its own is below the safety extra low volt level, but multiple modules connected in series (summing the voltage) represent a danger.

Tangshan Haitai New Energy Technology Co., Ltd

Add: NO.88 Haomen Road, Yutai Industrial Zone, Yutian County, Tangshan City, China.
Web: www.htsolar.com E-mail: ht@htsolargroup.com Made in China



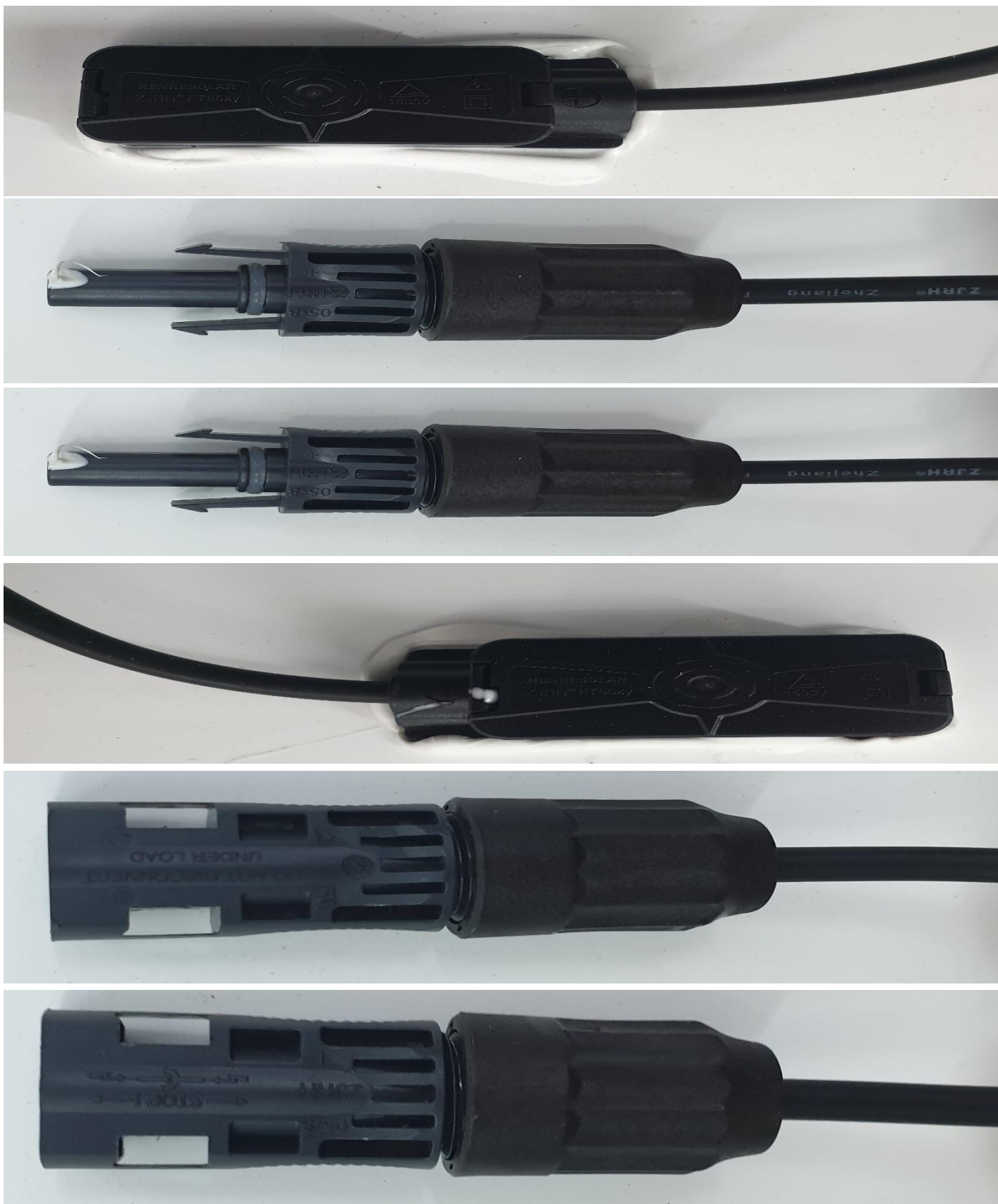
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