



Test Certificate No. 7313217295

1. **Details of order:**

The test was order by: **TÜV Rheinland (Shanghai) Co., Ltd**

Address: **TÜV Building I, No.177, Lane 777, West Guangzhong Road Jingan District, Shanghai, China**

Date of order: **30.07.2023**

The sample was taken by a representative of the customer

2. **Test of:**

Photovoltaic module

Model : **EG-XXXM54-HLV**

Manufacturer : **Changzhou EGing Photovoltaic Technology Co., Ltd.**

Country of manufacture : **CHINA**

Module type : **Mono-crystalline**

Num. of cells in module : **108**

Overall dimensions : **1724/1722 mm X 1134 mm X 30/35/40 mm**

3. **Description of sample:**

Date of Sampling : **01.07.2023**

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: **EG-XXXM54-HLV (XXX=395-415), IEC1500V.**

Test report Lab.: **TÜV Rheinland, Test Report No.: 50116992 001-034**

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

חתום: מ. סקיף, הנדסאי בודק  
ענף מערכות אנרגיה  
העבודה מבוססת תצפיות  
מכיון התקנים היטב אצלנו  
01/09/2023

Test Completion Date: **01.09.2023**

פרוטמט 32.7.707 מהדורה א' 6.3.18



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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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מס' תיקון 32.7.707 מהדורה א', 6.3.18



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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



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פרוט 32.7.707 מהדורה א', 6.3.18



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	PHOTOVOLTAIC MODULE		Pmax	416W±3%	Vmp	32.00V	Voc	37.90V±5%
	MODEL	EG-416M54-HLV	Cells	108pcs	Imp	12.97A	Isc	13.72A±5%
Standard Test Condition: 1000W/m <sup>2</sup> AM1.5 25°C			Size	1722*1134*30mm	Weight	20.2kg	Sys.Volt.	1600V
<b>WARNING</b> Please follow the instruction manual during installation or maintenance. Do not disconnect under load. Production power test uncertainty ±3%.			Fuse Rating	25A	Module Application	Class A		
					Certified in accordance with IEC61215(ed.2)/IEC61730-1,-2 No.18, Jinwu Road, Jintan, Changzhou, Jiangsu Province, P.R.C 213213 Changzhou EGING Photovoltaic Technology Co., Ltd <span style="float: right;">MADE IN CHINA</span>			



Test Completion Date: 01.09.2023

מחלקת מכניקה ומומחה 32.7.707 א' 18.6.3

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פורמט 32.7.707 מהדורה א' 6.3.18