

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**RESTAR SOLAR RENEWABLE ENERGY CO., LTD**  
No.30 Yongshun Road, Zhulin Town,  
Jintan District, Changzhou, Jiangsu, 213200  
China

is authorized to provide the product mentioned below with the mark as illustrated:

Description of product (details see Annex 2):

PV Modules with 6" Mono-crystalline Silicon Solar Cells

PV Modules with 6" Half-cut Mono-crystalline Silicon Solar Cells

PV Modules with 7" Half-cut Mono-crystalline Silicon Solar Cells

PV Modules with 8" Half-cut Mono-crystalline Silicon Solar Cells



Valid from: 2021-07-29

Valid until: 2025-08-02

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC / EN 61215-1:2016; IEC / EN 61215-1-1:2016; IEC 61215-2:2016 / EN 61215-2:2017 + AC:2017 + AC:2018; IEC 61730-1:2016 / EN IEC 61730-1:2018 + AC:2018; IEC 61730-2:2016 / EN IEC 61730-2:2018 + AC:2018.
Registered No.:	44 780 20 406749 - 139R1M1
Manufacturer:	see Annex 1
Test Report No.:	492011475.002
File No.:	PVP03060/21P



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Please also pay attention to the information stated overleaf.

**Manufacturer:**

Manufacturer: **RESTAR SOLAR RENEWABLE ENERGY CO., LTD**  
No.30 Yongshun Road, Zhulin Town,  
Jintan District, Changzhou, Jiangsu, 213200, China

Factory inspection report no.: 862010495.001

**Remark:**

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.



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**Description of product(s):**

Module types:	<b>PV Modules with 6" Mono-crystalline Silicon Solar Cells</b> 72 cells: RT6SxxxM (xxx = 325-400, in increment of 5) 60 cells: RT6CxxxM (xxx = 275-320, in increment of 5) 54 cells: RT6DxxxM (xxx = 250-285, in increment of 5) 48 cells: RT6FxxxM (xxx = 220-255, in increment of 5) 36 cells: RT6ExxxM (xxx = 165-210, in increment of 5) 36 cells: RTMxxxM (xxx = 10-125, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A or 15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	<b>PV Modules with 6" Half-cut Mono-crystalline Silicon Solar Cells</b> 144 cells: RT7lxxxM (xxx = 425-460, in increment of 5) 144 cells: RT6lxxxM (xxx = 325-420, in increment of 5) 120 cells: RT6KxxxM (xxx = 280-345, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A or 15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:	<b>PV Modules with 8" Half-cut Mono-crystalline Silicon Solar Cells:</b> 132 cells:RT9HxxxM (xxx = 645-670, in increment of 5) 120 cells:RT9KxxxM (xxx = 585-610, in increment of 5) 110 cells:RT9TxxxM (xxx = 530-555, in increment of 5) 150 cells:RT9NxxxM (xxx = 485-510, in increment of 5) 120 cells:RT9YxxxM (xxx = 390-415, in increment of 5)
Module types:	<b>PV Modules with 7" Half-cut Mono-crystalline Silicon Solar Cells</b> 144 cells: RT8IxxxM (xxx = 530-560, in increment of 5) 120 cells: RT8KxxxM (xxx = 440-460, in increment of 5) 108 cells:RT9VxxxM (xxx = 390-415, in increment of 5) 96 cells: RT8DxxxM (xxx = 355-365, in increment of 5) 72 cells:RT8SxxxM (xxx = 265-275, in increment of 5) 60 cells:RT8CxxxM (xxx = 220-230, in increment of 5) 48 cells:RT8FxxxM (xxx = 175, 180) 36 cells:RT8ExxxM (xxx = 135) 24 cells:RT8GxxxM (xxx = 90)
Maximum system voltage:	1500V
Fuse rating:	25A or 30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

## Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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**Description of product(s):**

Module types:	<b>PV Modules with 6" Poly-crystalline Silicon Solar Cells:</b> 72 cells: RT6SxxxP (xxx = 300-355, in increment of 5) 60 cells: RT6CxxxP (xxx = 250-295, in increment of 5) 54 cells: RT6DxxxP (xxx = 225-265, in increment of 5) 48 cells: RT6FxxxP (xxx = 205-235, in increment of 5) 36 cells: RT6ExxxP (xxx = 150-200, in increment of 5) 36 cells: RT6GxxxP (xxx = 100-115, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A or 15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	<b>PV Modules with 6" Half-cut Poly-crystalline Silicon Solar Cells:</b> 144 cells: RT7lxxxP (xxx = 395-410, in increment of 5) 144 cells: RT6lxxxP (xxx = 300-370, in increment of 5) 120 cells: RT6KxxxP (xxx = 250-300, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A or 15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

**Remark:**

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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## Certificate of conformity with the following European Directives

Registered No.:

44 799 21 406749 - 085

### Low-Voltage Directive 2014/35/EU

Date of application	File reference	Test report No.	Date of issue	Place of issue
2021-03-17	PVP03060/21P	492011475.002	2021-07-29	Essen

This is to certify that the following products comply to the essential requirements of the above mentioned European Directive and the following standards, taking into account the German national deviations:

**Product:** Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

**Type designation:** See Annex 1

**Applicant:** RESTAR SOLAR RENEWABLE ENERGY CO., LTD  
No.30 Yongshun Road, Zhulin Town,  
Jintan District, Changzhou, Jiangsu, 213200, China

**Standard(s):** EN IEC 61730-1:2018; EN IEC 61730-1:2018/AC:2018-06  
EN IEC 61730-2:2018; EN IEC 61730-2:2018/AC:2018-06

This Certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.



Certification Body  
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**Description of product(s):**

Module types: **PV Modules with 6" Mono-crystalline Silicon Solar Cells**

72 cells: RT6SxxxM (xxx = 325-400, in increment of 5)  
60 cells: RT6CxxxM (xxx = 275-320, in increment of 5)  
54 cells: RT6DxxxM (xxx = 250-285, in increment of 5)  
48 cells: RT6FxxxM (xxx = 220-255, in increment of 5)  
36 cells: RT6ExxxM (xxx = 165-210, in increment of 5)  
36 cells: RTMxxxM (xxx = 10-125, in increment of 5)

Module types: **PV Modules with 6" Half-cut Mono-crystalline Silicon Solar Cells**

144 cells: RT7lxxxM (xxx = 425-460, in increment of 5)  
144 cells: RT6lxxxM (xxx = 325-420, in increment of 5)  
120 cells: RT6KxxxM (xxx = 280-345, in increment of 5)

Module types: **PV Modules with 7" Half-cut Mono-crystalline Silicon Solar Cells**

144 cells: RT8lxxxM (xxx = 530-560, in increment of 5)  
120 cells: RT8KxxxM (xxx = 440-460, in increment of 5)  
108 cells: RT9VxxxM (xxx = 390-415, in increment of 5)  
96 cells: RT8DxxxM (xxx = 355-365, in increment of 5)  
72 cells: RT8SxxxM (xxx = 265-275, in increment of 5)  
60 cells: RT8CxxxM (xxx = 220-230, in increment of 5)  
48 cells: RT8FxxxM (xxx = 175, 180)  
36 cells: RT8ExxxM (xxx = 135)  
24 cells: RT8GxxxM (xxx = 90)

Module types: **PV Modules with 8" Half-cut Mono-crystalline Silicon Solar Cells:**

132 cells: RT9HxxxM (xxx = 645-670, in increment of 5)  
120 cells: RT9KxxxM (xxx = 585-610, in increment of 5)  
110 cells: RT9TxxxM (xxx = 530-555, in increment of 5)  
150 cells: RT9NxxxM (xxx = 485-510, in increment of 5)  
120 cells: RT9YxxxM (xxx = 390-415, in increment of 5)

Module types:

**PV Modules with 6" Poly-crystalline Silicon Solar Cells:**

72 cells: RT6SxxxP (xxx = 300-355, in increment of 5)

60 cells: RT6CxxxP (xxx = 250-295, in increment of 5)

54 cells: RT6DxxxP (xxx = 225-265, in increment of 5)

48 cells: RT6FxxxP (xxx = 200-235, in increment of 5)

36 cells: RT6ExxxP (xxx = 150-200, in increment of 5)

36 cells: RT6GxxxP (xxx = 100-115, in increment of 5)

Module types:

**PV Modules with 6" Half-cut Poly-crystalline Silicon Solar Cells:**

144 cells: RT7lxxxP (xxx = 395-410, in increment of 5)

144 cells: RT6lxxxP (xxx = 300-370, in increment of 5)

120 cells: RT6KxxxP (xxx = 250-300, in increment of 5)



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