

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Hefei Sunway Solar Energy Tech. Co., Ltd.
Shushan New Industry Area IV, Huguang Road,
Shushan District, Hefei City,
Anhui Province, China

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

Description of product (details see Annex 2):

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules



Valid from: 2021-12-20

Valid until: 2026-10-27

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 21 406749 - 280
Manufacturer:	see Annex 1
Test Report No.:	492011896.001
File No.:	PVP11034/21P

A handwritten signature in blue ink.

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Consumer Products

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 21 406749 - 280

Seite / Page 1 von / of 1

Aktenzeichen: / File reference: PVP11034/21P

2021-12-20

Manufacturer:

Manufacturer: Coded by debtor no. 55519477

Factory inspection report no.: 862010573.001

Remark:

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

A handwritten signature in blue ink, appearing to read "R. J. ...".

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Description of product(s):

Module types: **PV Modules with Half-cut 166mm Mono-crystalline Silicon Solar Cells:**
144 cells: SWxxxM-144 (xxx=440-470, in steps of 5)
120 cells: SWxxxM-120 (xxx=365-390, in steps of 5)
72 cells: SWxxxM-72 (xxx=220-235, in steps of 5)

Maximum system voltage: 1500V

Fuse rating: 20A

Electrical protection class: Class II

Pollution degree: 1

Material group: I

Design load (positive / negative): 2400Pa / 1600Pa

Safety factors: 1.5

Fire safety class: Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types: **PV Modules with Half-cut 182mm Mono-crystalline Silicon Solar Cells:**
144 cells: SWxxxM-144 (xxx=520-560, in steps of 5)
132 cells: SWxxxM-132 (xxx=475-505, in steps of 5)
120 cells: SWxxxM-120 (xxx=435-455, in steps of 5)
108 cells: SWxxxM-108 (xxx=390-410, in steps of 5)
72 cells: SWxxxM-72 (xxx=260-275, in steps of 5)

Maximum system voltage: 1500V

Fuse rating: 25A

Electrical protection class: Class II

Pollution degree: 1

Material group: I

Design load (positive / negative): 2400Pa / 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:	PV Modules with Half-cut 210mm Mono-crystalline Silicon Solar Cells: 132 cells: SWxxxM-132 (xxx=650-670, in steps of 5) 120 cells: SWxxxM-120 (xxx=590-610, in steps of 5) 110 cells: SWxxxM-110 (xxx=540-555, in steps of 5) 72 cells: SWxxxM-72 (xxx=355-365, in steps of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	2400Pa / 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 - 153

Low-Voltage Directive 2014/35/EU

Date of application	File reference	Test report No.	Date of issue	Place of issue
2021-11-12	PVP11034/21P	492011896.001	2021-12-20	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: Hefei Sunway Solar Energy Tech. Co., Ltd.
Shushan New Industry Area IV, Huguang Road,
Shushan District, Hefei City, Anhui Province, 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
Specialist Manager Consumer Products

TÜV NORD CERT GmbH
Langemarckstrasse 20
D-45141 Essen
P.O.Box 10 32 61
D-45032 Essen
Fon: +49 (0)201 825-5120
Fax: +49 (0)201 825-3209
Email: prodcert@tuev-nord.de