

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**Sunrise energy Co., Ltd.**  
No.20 Tongzi River West Road, Zhonglou Development Zone,  
Changzhou Jiangsu, 213023 P.R. 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: 2024-04-11

Valid until: 2029-04-10

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC 61215-1:2021 / EN IEC 61215-1:2021; IEC 61215-1-1:2021 / EN IEC 61215-1-1:2021; IEC 61215-2:2021 / EN IEC 61215-2:2021; IEC 61730-1:2023; IEC 61730-2:2023.
Registered No.:	44 780 24 406749 - 144
Manufacturer and factory(-ies):	See Annex 1
Test Report No.:	492012963.001
File No.:	PVP08092/23P-01



**TÜV NORD CERT GmbH**  
**Certification Body**  
**Consumer Products**

Essen, 2024-04-11



**Manufacturer and factory(-ies):**

Manufacturer: **Sunrise energy Co., Ltd.**  
No.20 Tongzi River West Road, Zhonglou Development Zone,  
Changzhou Jiangsu, 213023 P.R. China

Factory: **Sunrise energy Co., Ltd.**  
No.20 Tongzi River West Road, Zhonglou Development Zone,  
Changzhou Jiangsu, 213023 P.R. China

Factory inspection report no.: 862010400.006

**Remark:**

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



**TÜV NORD CERT GmbH**  
**Certification Body**  
**Consumer Products**

**Description of product(s):**

Module types:	<b>Double Glass PV Modules with Half-cut 7" TOPCon Monocrystalline Silicon Solar Cells:</b> 156 cells: SR-78MxxxNHLProD (xxx=590-635, in steps of 5) 144 cells: SR-72MxxxNHLProD (xxx=545-585, in steps of 5) 132 cells: SR-66MxxxNHLProD (xxx=500-535, in steps of 5) 120 cells: SR-60MxxxNHLProD (xxx=455-485, in steps of 5) 108 cells: SR-54MxxxNHLProD (xxx=410-440, in steps of 5) 96 cells: SR-48MxxxNHLProD (xxx=370-390, in steps of 5) 84 cells: SR-42MxxxNHLProD (xxx=320-340, in steps of 5) 72 cells: SR-36MxxxNHLProD (xxx=275-290, in steps of 5) Remark: xxx indicates rated output power generated from front side only at STC.
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
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) attached to test report with same file no.



**TÜV NORD CERT GmbH**  
**Certification Body**  
**Consumer Products**

## Certificate of conformity with the following European Directives

Registered No.:  
**44 799 24 406749 - 134**

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

Date of application	File reference	Test report No.	Date of issue	Place of issue
2023-09-04	PVP08092/23P-01	492012963.001	2024-04-11	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:

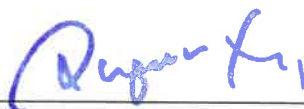
**Product:** Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

**Type designation:** See Annex 1

**Applicant:** **Sunrise energy Co., Ltd.**  
No.20 Tongzi River West Road, Zhonglou Development Zone,  
Changzhou Jiangsu, 213023 P.R. 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



Certification Body  
Specialist Manager Consumer Products

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with his EC-Declaration of Conformity.

**Description of product(s):**

Module types:

**Double Glass PV Modules with Half-cut 7" TOPCon Mono-crystalline Silicon Solar Cells:**

156 cells: SR-78MxxxNHLProD (xxx=590-635, in steps of 5)

144 cells: SR-72MxxxNHLProD (xxx=545-585, in steps of 5)

132 cells: SR-66MxxxNHLProD (xxx=500-535, in steps of 5)

120 cells: SR-60MxxxNHLProD (xxx=455-485, in steps of 5)

108 cells: SR-54MxxxNHLProD (xxx=410-440, in steps of 5)

96 cells: SR-48MxxxNHLProD (xxx=370-390, in steps of 5)

84 cells: SR-42MxxxNHLProD (xxx=320-340, in steps of 5)

72 cells: SR-36MxxxNHLProD (xxx=275-290, in steps of 5)

Remark: xxx indicates rated output power generated from front side under STC



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