

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: 2024-04-15

Valid until: 2029-04-14

Certification program:

P12-VA-01 Rev. 17 09.20

Certification fundamental(s):

P12.4-AA-04 Rev. 00

(IEC 60068-2-68:1994 modified)

Remark:

Test Method Lc2;

Dust concentration: $5 \pm 1.5 \text{ g/m}^3$;

Wind velocity: $20 \pm 2 \text{ m/s}$;

Test duration: 4 hours each side.

Registered No.:

44 780 24 406749 - 147

Manufacturer and factory(-ies):

See Annex 1

Test Report No.:

492012966.001

File No.:

PVP08162/23P-03




TÜV NORD CERT GmbH
Certification Body
Consumer Products

Essen, 2024-04-15

Please also pay attention to the information stated overleaf.

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.



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Description of product(s):

Module types:

Double Glass PV Modules with Half-cut 7" TOPCon Monocrystalline 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

Maximum system voltage: 1500V

Fuse rating: 30A

Application class: Class A

Electrical protection class: Class II

Remark:

For detailed product information, please refer to CDF (Constructional Data Form).



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