

CERTIFICATE

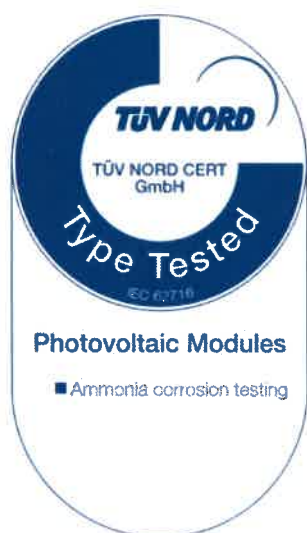
TÜV NORD CERT GmbH

herewith declares that

Risen Energy Co., Ltd.

Tashan Industry Zone, Meilin Town, Ninghai County
Ningbo City, Zhejiang Province, 315609
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 until: 2026-07-26

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC 62716:2013 / EN 62716:2013 + AC:2014.
Registered No.:	44 780 19 406749 - 327R13A5M16
Manufacturer:	see Annex 1
Test Report No.:	492010678.022
File No.:	PVP08051/22P-02



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Essen, 2023-02-23

Please also pay attention to the information stated overleaf.

Manufacturer:

Manufacturer 1:	Risen Energy (CHANGZHOU) Co., Ltd. No.1, Shuinan Road, Zhixi Industrial Park, Jintan District 213251 Changzhou City, PEOPLE'S REPUBLIC OF CHINA
Factory inspection report no.:	862010430.004
Manufacturer 2:	Risen Energy (YIWU) Co., Ltd. No.599 Sufu Road, Suxi Town, Yiwu City, Zhejiang Province, 322000, PEOPLE'S REPUBLIC OF CHINA
Factory inspection report no.:	862010464.004
Manufacturer 3:	Risen Energy (Anhui) Co., Ltd. No.325, East Tongling Road Economic and Technological Development Zone, 239000 Chuzhou City, Anhui Province, PEOPLE'S REPUBLIC OF CHINA
Factory inspection report no.:	862010547.002
Manufacturer 4:	Risen Energy (Ningbo) Co., Ltd. No.1 Middle, Xingke Road, Ninghai, 315609, Ningbo, Zhejiang, P.R. China.
Factory inspection report no.:	862010656.002
Manufacturer 5:	RISEN SOLAR TECHNOLOGY SDN. BHD. No.3, Jalan Hi-Tech 14, Zon Industri Fasa 4, Kulim Hi-Tech Park, 09090 Kulim, Kedah Malaysia.
Factory inspection report no.:	862010604.001
Manufacturer 6:	Risen Energy (Baotou) Co., Ltd. Baotou Jinshan Industrial Park, Guyang County, Baotou City 014200 Inner Mongolia Autonomous Region PEOPLE'S REPUBLIC OF CHINA
Factory inspection report no.:	862010717.001

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

72 cells: RSM72-6-xxxPDG (xxx=315 - 360, increments of 5)

60 cells: RSM60-6-xxxPDG (xxx=265 - 300, increments of 5)

144 cells: RSM144-6-xxxPDG (xxx=330 - 365, increments of 5)

120 cells: RSM120-6-xxxPDG (xxx=275 - 305, increments of 5)

Maximum system voltage: 1500V

Fuse rating: 20A

Application class: Class A

Electrical protection class: Class II

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

72 cells: RSM72-6-xxxMDG (xxx=315 - 385, increments of 5)

60 cells: RSM60-6-xxxMDG (xxx=265 - 320, increments of 5)

144 cells: RSM144-6-xxxMDG (xxx=350 - 415, increments of 5)

132 cells: RSM132-6-xxxMDG (xxx=320 - 380, increments of 5)

120 cells: RSM120-6-xxxMDG (xxx=295 - 350, increments of 5)

Maximum system voltage: 1500V

Fuse rating: 20A

Application class: Class A

Electrical protection class: Class II

Module types: **Double Glass PV Modules with 6" Mono p-type Bifacial Solar Cells:**

72 cells: RSM72-6-xxxBMDG (xxx=340 - 385, increments of 5)

60 cells: RSM60-6-xxxBMDG (xxx=280 - 325, increments of 5)

144 cells: RSM144-6-xxxBMDG (xxx=360 - 455, increments of 5)

144 cells: RSM144-7-xxxBMDG (xxx=425 - 455, increments of 5)

144 cells: RSM144-7-xxxBMDGZ (xxx=425 - 455, increments of 5)

132 cells: RSM132-6-xxxBMDG (xxx=330 - 420, increments of 5)

132 cells: RSM132-7-xxxBMDG (xxx=390 - 420, increments of 5)

132 cells: RSM132-7-xxxBMDGZ (xxx=390 - 420, increments of 5)

120 cells: RSM120-6-xxxBMDG (xxx=300 - 380, increments of 5)

120 cells: RSM120-7-xxxBMDG (xxx=355 - 380, increments of 5)

120 cells: RSM120-7-xxxBMDGZ (xxx=355 - 380, increments of 5)

Remark: The power parameter included in the module types only



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indicates maximum power output of front side.

Maximum system voltage: 1500V
Fuse rating: 20A or 25A
Application class: Class A
Electrical protection class: Class II

Module types: **Double Glass PV Modules with 7" Mono p-type Bifacial Solar Cells:**
144 cells: RSM144-9-xxxBMDG (xxx=520 - 560, increments of 5)
132 cells: RSM132-9-xxxBMDG (xxx=480 - 510, increments of 5)
120 cells: RSM120-9-xxxBMDG (xxx=435 - 465, increments of 5)
Remark: The power parameter included in the module types only indicates maximum power output of front side.

Maximum system voltage: 1500V
Fuse rating: 20A or 25A
Application class: Class A
Electrical protection class: Class II

Module types: **Double Glass PV Modules with 8" Mono p-type Bifacial Solar Cells:**
150 cells: RSM150-8-xxxBMDG (xxx=465 - 510, increments of 5)
90 cells: RSM90-8-xxxBMDG (xxx=285 - 300, increments of 5)
132 cells: RSM132-8-xxxBMDG (xxx=635 - 675, increments of 5)
120 cells: RSM120-8-xxxBMDG (xxx=560 - 615, increments of 5)
110 cells: RSM110-8-xxxBMDG (xxx=525 - 565, increments of 5)
80 cells: RSM80-8-xxxBMDG (xxx=380 - 405, increments of 5)
264 cells: RSM264-8-xxxBMDG (xxx=645 to 670, increments of 5)
Remark: The power parameter included in the module types only indicates maximum power output of front side.

Maximum system voltage: 1500V
Fuse rating: 25A or 35A
Application class: Class A
Electrical protection class: Class II

Module types: **Double Glass PV Modules with 6" Mono n-type Bifacial Solar Cells:**
156 cells: RSM156-6-xxxBHDG (xxx=435 - 465, increments of 5)
144 cells: RSM144-6-xxxBHDG (xxx=400 - 430, increments of 5)
144 cells: RSM144-6-xxxHDGB (xxx=400 - 430, increments of 5)

132 cells: RSM132-6-xxxBHDG (xxx=365 - 390, increments of 5)
132 cells: RSM132-6-xxxHDGB (xxx=365 - 390, increments of 5)
120 cells: RSM120-6-xxxBHDG (xxx=330 - 360, increments of 5)
120 cells: RSM120-6-xxxHDGB (xxx=330 - 360, increments of 5)
Remark: The power parameter included in the module types only indicates maximum power output of front side.

Maximum system voltage: 1500V
Fuse rating: 20A or 25A
Application class: Class A
Electrical protection class: Class II

Module types:

Double Glass PV Modules with 8" Mono n-type Bifacial Solar Cells:

132 cells: RSM132-8-xxxBNDG (xxx=665 - 695, increments of 5)
120 cells: RSM120-8-xxxBNDG (xxx=605 - 635, increments of 5)
110 cells: RSM110-8-xxxBNDG (xxx=550 - 580, increments of 5)
132 cells: RSM132-8-xxxBHDG (xxx=650 - 705, increments of 5)
120 cells: RSM120-8-xxxBHDG (xxx=590 - 645, increments of 5)
110 cells: RSM110-8-xxxBHDG (xxx=540 - 590, increments of 5)
Remark: The power parameter included in the module types only indicates maximum power output of front side.

Maximum system voltage: 1500V
Fuse rating: 35A
Application class: Class A
Electrical protection class: Class II

Module types:

Double Glass PV Modules with 7" Mono n-type Bifacial Solar Cells:

144 cells: RSM144-9-xxxBNDG (xxx=550 - 585, increments of 5)
120 cells: RSM120-9-xxxBNDG (xxx=455 - 485, increments of 5)
108 cells: RSM108-9-xxxBNDG (xxx=410 - 435, increments of 5)
Remark: The power parameter included in the module types only indicates maximum power output of front side.

Maximum system voltage: 1500V
Fuse rating: 30A
Application class: Class A
Electrical protection class: Class II



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Module types:	Double Glass PV Modules with 7" Mono n-type Bifacial Solar Cells: 144 cells: RSM144-10-xxxBNDG (xxx=570 - 600, increments of 5) 120 cells: RSM120-10-xxxBNDG (xxx=475 - 500, increments of 5) 108 cells: RSM108-10-xxxBNDG (xxx=425 - 450, increments of 5) Remark: The power parameter included in the module types only indicates maximum power output of front side.
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) in Annex 1 of test report.



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