

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Shandong Ronma Solar Co., Ltd.
Room 217, No.39 Weihe Road, Dongying Development Zone
Dongying City, Shandong 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: 2023-03-29
Valid until: 2027-07-25

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 22 406749 - 171R1M2
Manufacturer:	see Annex 1
Test Report No.:	492012117.003
File No.:	PVP03065/23P-02



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Consumer Products



Essen, 2023-03-29

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 22 406749 - 171R1M2

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Aktenzeichen: / File reference: PVP03065/23P-02

2023-03-29

Manufacturer:

Manufacturer: **Shandong Ronma Solar Co., Ltd.**
Room 217, No.39 Weihe Road, Dongying Development Zone
Dongying City, Shandong Province, China

Factory inspection report no.: 862010489.002

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 8" Mono-crystalline Silicon Solar Cells: 132 cells: RM-xxxW-210M/132 Bifacial (xxx = 635-660, in increment of 5) 120 cells: RM-xxxW-210M/120 Bifacial (xxx = 580-600, in increment of 5) 108 cells: RM-xxxW-210M/108 Bifacial (xxx = 520-540, in increment of 5) 96 cells: RM-xxxW-210M/96 Bifacial (xxx = 460-480, in increment of 5) 84 cells: RM-xxxW-210M/84 Bifacial (xxx = 405-420, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	35A 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)

Module types:	Double Glass PV Modules with 7" Mono-crystalline Silicon Solar Cells: 144 cells: RM-xxxW-182M/144 Bifacial (xxx = 520-545, in increment of 5) 132 cells: RM-xxxW-182M/132 Bifacial (xxx = 480-500, in increment of 5) 120 cells: RM-xxxW-182M/120 Bifacial (xxx = 435-450, in increment of 5) 108 cells: RM-xxxW-182M/108 Bifacial (xxx = 390-405, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	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)



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Module types:	Double Glass PV Modules with 8" TOPCon Mono-crystalline Silicon Solar Cells: 132 cells: RM-xxxW-210M/132TB (xxx = 660-680, in increment of 5) 120 cells: RM-xxxW-210M/120TB (xxx = 600-615, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	35A 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)

Module types:	Double Glass PV Modules with 7" TOPCon Mono-crystalline Silicon Solar Cells: 144 cells: RM-xxxW-182M/144TB (xxx = 560-570, in increment of 5) 120 cells: RM-xxxW-182M/120TB (xxx = 465-475, in increment of 5) 108 cells: RM-xxxW-182M/108TB (xxx = 420-425, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	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)



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Module types:	Double Glass PV Modules with 8" Heterojunction Mono-crystalline Silicon Solar Cells: 132 cells: RM-xxxW-210M/132HB (xxx = 670-680, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	35A 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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