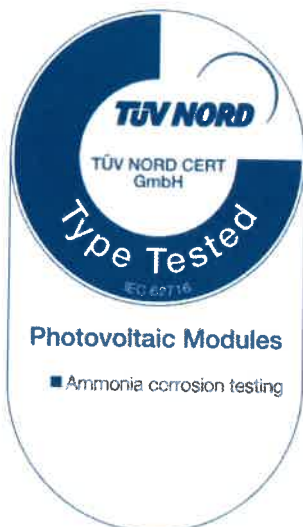


CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Solar Fabrik GmbH
Hermann-Niggemann-Straße 7
D-63846 Laufach
Germany

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: 2028-08-02

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC 62716:2013 / EN 62716:2013 + AC:2014.
Registered No.:	44 780 24 406749 - 050
Manufacturer:	see Annex 1
Test Report No.:	492012976.001
File No.:	PVP01036/24P-04



TÜV NORD CERT GmbH
Certification Body
Consumer Products



Essen, 2024-02-04

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 24 406749 - 050

Seite / Page 1 von / of 1

Aktenzeichen: / File reference: PVP01036/24P-04

2024-02-04

Manufacturer:

Manufacturer 1: **Coded by debtor no. 55560544**

Factory inspection report no.: 862010664.002

Manufacturer 2: **Coded by debtor no. 55578529**

Factory inspection report no.: 862010732.001

Manufacturer 3: **Coded by debtor no. 55587432**

Factory inspection report no.: 862010779.001

Manufacturer 4: **Coded by debtor no. 55594747**

Factory inspection report no.: 862010855.001

Remark:

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



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Certification Body
Consumer Products

Description of product(s):

Module types:

Double Glass PV Modules with Half-cut 182mm Mono-crystalline Silicon Solar Cells:

144 cells: MS4 HC xxx BF-DGM TP PJ (xxx=530-560 in steps of 5)

132 cells: MS4 HC xxx BF-DGM TP PJ (xxx=485-510 in steps of 5)

120 cells: MS4 HC xxx BF-DGM TP PJ (xxx=440-465 in steps of 5)

108 cells: MS4 HC V xxx BF-DG IVP (xxx=400-420 in steps of 5)

96 cells: MS4 HC xxx BF-DG IVP (xxx=355-370 in steps of 5)

72 cells: MS4 HC xxx BF-DG IVP (xxx=265-280 in steps of 5)

Remark: xxx indicates output power from the front side only

Maximum system voltage:

1500V

Fuse rating:

30A

Application class:

Class A

Electrical protection class:

Class II

Module types:

Double Glass PV Modules with Half-cut 210mm Mono-crystalline Silicon Solar Cells:

132 cells: MS4 HC V xxx BF-DGM TP PJ (xxx=650-670, in steps of 5)

120 cells: MS4 HC V xxx BF-DGM TP PJ (xxx=590-610, in steps of 5)

108 cells: MS4 HC xxx BF-DGM IVP PJ (xxx=530-545, in steps of 5)

96 cells: MS4 HC xxx BF-DGM IVP PJ (xxx=475-490, in steps of 5)

84 cells: MS4 HC xxx BF-DGM IVP (xxx=415-425, in steps of 5)

60 cells: MS5 HC V xxx BF-DG (xxx=285-310, in steps of 5)

Remark: xxx indicates output power from the front side only

Maximum system voltage:

1500V

Fuse rating:

35A or 15A

Application class:

Class A

Electrical protection class:

Class II



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Module types: **Double Glass PV Modules with Half-cut 210mm TOPCon Monocrystalline Silicon Solar Cells:**
132 cells: MS4 HC xxx BF-DGM TP PJ (xxx=660-705 in steps of 5)
120 cells: MS4 HC xxx BF-DGM TP PJ (xxx=600-640 in steps of 5)
60 cells: MS5 HC xxx BF-DG (xxx=300-320 in steps of 5)
Remark: xxx indicates output power from the front side only

Maximum system voltage: 1500V

Fuse rating: 35A

Application class: Class A

Electrical protection class: Class II

Module types: **Double Glass PV Modules with Half-cut 182mm TOPCon Monocrystalline Silicon Solar Cells:**
144 cells: Mono S4 HC V xxx BF-DG (xxx=545-590 in steps of 5)
132 cells: Mono S4 HC V xxx BF-DG (xxx=495-540 in steps of 5)
120 cells: Mono S4 HC V xxx BF-DG (xxx=445-490 in steps of 5)
108 cells: Mono S4 HC V xxx BF-DG (xxx=400-440 in steps of 5)
Remark: xxx indicates output power from the front side only

Maximum system voltage: 1500V

Fuse rating: 30A

Application class: Class A

Electrical protection class: Class II

Module types: **Double Glass PV Modules with Half-cut 186mm TOPCon Monocrystalline Silicon Solar Cells:**
108 cells: MS4 HC xxx BF-DG IVP (xxx=405-445 in steps of 5)
Remark: xxx indicates output power from the front side only

Maximum system voltage: 1500V

Fuse rating: 30A

Application class: Class A

Electrical protection class: Class II



Module types:

Double Glass PV Modules with Half-cut 191.6mm TOPCon Mono-crystalline Silicon Solar Cells:

144 cells: MS4 HC xxx BF-DG IVP (xxx=595-615 in steps of 5)

132 cells: MS4 HC xxx BF-DG IVP (xxx=545-560 in steps of 5)

120 cells: MS4 HC xxx BF-DG IVP (xxx=495-510 in steps of 5)

108 cells: MS4 HC xxx BF-DG (xxx=445-460 in steps of 5)

Remark: xxx indicates output power from the front side only

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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