

CERTIFICATE



TÜV NORD CERT GmbH
herewith declares that

Ningbo Ulica Solar Science & Technology Co., Ltd.
No.181, Shanshan Road Wangchun Industrial District
Ningbo, Zhejiang, 315177
P.R. China

is authorized to provide the product mentioned below with the mark as illustrated:



Description of product (details see Annex 2):

PV Modules with 6" Mono-crystalline Silicon Solar Cells

PV Modules with 5" Mono-crystalline Silicon Solar Cells

PV Modules with 6" Poly-crystalline Silicon Solar Cells

Tested according to: IEC 60068-2-68 Method Lc2
Remark: Dust concentration: $5 \pm 0.5 \text{g/m}^3$;
Wind velocity: $20 \pm 2 \text{m/s}$;
Test duration: 4 hours
Registered No.: 44 780 16 406749 - 076
Manufacturer: see Annex 1
Test Report No.: 492010657.001
File No.: SHV02039/16

Valid until: 2021-04-12

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Consumer Products

Essen, 2016-04-13

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 16 406749 - 076

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Aktenzeichen: / File reference: SHV02039/16

2016-04-13

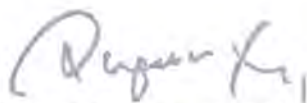
Manufacturer:

Manufacturer: **Ningbo Ulica Solar Science & Technology Co., Ltd.**
No.181, Shanshan Road Wangchun Industrial District
Ningbo, Zhejiang, 315177, P.R.China

Factory inspection report no.: 862010288.001

Remark:

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

A handwritten signature in black ink, appearing to read "Rogers K.", is positioned above the company name.

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Description of product(s):

Module types:

PV Modules with 6" Mono-crystalline Silicon Solar Cells

72 cells: UL- xxxM-72 (xxx=250-350, in steps of 5)
60 cells: UL- xxxM-60 (xxx = 210-290, in steps of 5)
54 cells: UL- xxxM-54 (xxx = 190-260, in steps of 5)
48 cells: UL- xxxM-48 (xxx = 170-230, in steps of 5)
36 cells: UL- xxxM-36 (xxx = 135-175, in steps of 5)
32 cells: UL- xxxM-32 (xxx = 120-155, in steps of 5)
28 cells: UL- xxxM-28 (xxx = 105-135, in steps of 5)
24 cells: UL- xxxM-24 (xxx = 95-120, in steps of 5)

Maximum system voltage:

1000V

Fuse rating:

15A

Application class:

Class A

Electrical protection class:

Class II

Module types:

PV Modules with 5" Mono-crystalline Silicon Solar Cells

96 cells: UL- xxxD-96 (xxx = 235-290, in steps of 5)
84 cells: UL- xxxD-84 (xxx = 165-250, in steps of 5)
72 cells: UL- xxxD-72 (xxx = 155-215, in steps of 5)
40 cells: UL- xxxD-40 (xxx = 90-120, in steps of 5)
36 cells: UL- xxxD-36 (xxx = 80-105, in steps of 5)
32 cells: UL- xxxD-32 (xxx = 75-95, in steps of 5)
28 cells: UL- xxxD-28 (xxx = 65-80, in steps of 5)
24 cells: UL- xxxD-24 (xxx = 60-70, in steps of 5)
20 cells: UL- xxxD-20 (xxx = 50-60, in steps of 5)
16 cells: UL- xxxD-16 (xxx = 40,45)

Maximum system voltage:

1000V

Fuse rating:

15A

Application class:

Class A

Electrical protection class:

Class II



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Module types:

PV Modules with 6" Poly-crystalline Silicon Solar Cells

72 cells: UL- xxxP-72 (xxx = 240-345, in steps of 5)
60 cells: UL- xxxP-60 (xxx = 200-285, in steps of 5)
54 cells: UL- xxxP-54 (xxx = 180-255, in steps of 5)
48 cells: UL- xxxP-48 (xxx = 160-230, in steps of 5)
36 cells: UL- xxxP-36 (xxx = 140-170, in steps of 5)
32 cells: UL- xxxP-32 (xxx = 120-150, in steps of 5)
28 cells: UL- xxxP-28 (xxx = 105-130, in steps of 5)
24 cells: UL- xxxP-24 (xxx = 95 -115, in steps of 5)

Maximum system voltage:

1000V

Fuse rating:

15A

Application class:

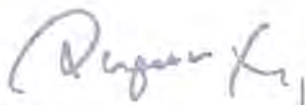
Class A

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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