

CERTIFICATE

TÜV NORD CERT GmbH

herewith declares that

Shanghai JA Solar Technology Co., Ltd.

No. 118, Lane 3111, West Huancheng Road, Fengxian District, Shanghai, 201401, 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: 2023-05-19 Valid until: 2026-09-29

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 Lc:

Dust concentration: 5±0.5g/m³;

Wind velocity: 20±2m/s;

Test duration: 4 hours each side. 44 780 19 406749 - 305R13A7M15

Registered No.: Manufacturer:

see Annex 1

Test Report No.:

492010720.025

File No.:

PVP04070/23P-03

TÜV NORD CERT GmbH Certification Body Consumer Products



Essen, 2023-05-19

Please also pay attention to the information stated overleaf.



Seite / Page 1 von / of 2

Aktenzeichen: / File reference: PVP04070/23P-03

2023-05-19

Manufacturer:

Manufacturer 1:

Shanghai JA Solar Technology Co., Ltd.

No. 118, Lane 3111, West Huancheng Road, Fengxian District

Shanghai 201401, P.R. China

Factory inspection report no.:

862010153.010

Manufacturer 2:

Hefei JA Solar Technology Co., Ltd.

No. 999, Chang Ning Road, Hi-tech Zone, Hefei

230088, P.R. China

Factory inspection report no.:

862010241.009

Manufacturer 3:

JA Solar (Xingtai) Co., Ltd.

No. 1688, Chang An Road, Xingtai Economic Development Area

Xingtai City, Hebei Province, 054001, P.R. China

Factory inspection report no.:

862010290.007

Manufacturer 4:

Vina Solar Technology Co., Ltd.

E12 factory, lot CN-03, Van Trung Industrial park

21000 Bac Giang Province, Vietnam

Factory inspection report no.:

862010302.006

Manufacturer 5:

JA Solar New Energy Yangzhou Co., Ltd.

No.1, Jianhua Road, Economic Development Zone Yangzhou, Jiangsu Province, 225000, P.R. China

Factory inspection report no.:

862010496.003

Manufacturer 6:

Yiwu JA Solar Technology Co., Ltd.

No. 165, Tongze Road, Yiting Town, Yiwu City,

Zhejiang Province, 322000, P.R. China.

Factory inspection report no.:

862010513.003

Manufacturer 7:

JA Solar Viet Nam Company Limited

Lot G, Quang Chau Industrial Zone, Quang Chau Commune

Viet Yen Dist, 236110 Bac Giang Province, VIETNAM.

Factory inspection report no.:

862010560.002



Seite / Page 2 von / of 2

Aktenzeichen: / File reference: PVP04070/23P-03

2023-05-19

Manufacturer 8:

JA Solar New Energy Yangzhou Co., Ltd. (Jingshan Park)

No.123, Jinshan Road, Economic Development Zone,

Yangzhou, Jiangsu Province, 225127, P.R. China

Factory inspection report no.:

862010584.002

Remark:

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



Seite / Page 1 von / of 5

Aktenzeichen: / File reference: PVP04070/23P-03

2023-05-19

Description of product(s):

Module types:

PV Modules with Mono-crystalline Silicon Solar Cells (156mm to 158.75mm):

72 cells: JAM6(K)(DG)-72-xxx/PR/1500V (xxx=330-365, in steps of 5) 72 cells: JAM6(K)(DG)-72-xxx/4BB/1500V (xxx=320-340, in steps of 5)

72 cells: JAM72D00-xxx/PR (xxx=340-385, in steps of 5)

72 cells: JAM72D00-xxx/PR/1500V (xxx=340-385, in steps of 5)

72 cells: JAM72D00-xxx/SC (xxx=320-340, in steps of 5)

72 cells: JAM72D00-xxx/BP (xxx=330-385, in steps of 5)

72 cells: JAM72D00-xxx/BP/1500V (xxx=330-385, in steps of 5)

72 cells: JAM72D00-xxx/MB (xxx=370-380, in steps of 5)

72 cells: JAM72D00-xxx/MB/1500V (xxx=370-380, in steps of 5)

72 cells: JAM72D09-xxx/BP (xxx=360-400, in steps of 5)

72 cells: JAM72D09-xxx/BP/1500V (xxx=360-400, in steps of 5)

60 cells: JAM6(DG)-60-xxx/1500V (xxx=250-270, in steps of 5)

60 cells: JAM6(K)(DG)-60-xxx/4BB/1500V (xxx=260-285, in steps of 5)

60 cells: JAM6(K)(DG)-60-xxx/PR/1500V (xxx=270-305, in steps of 5)

60 cells: JAM6(DG)-60-xxx/4BB/1500V (xxx=260-280, in steps of 5)

60 cells: JAM60D00-xxx/PR (xxx=285-320, in steps of 5)

60 cells: JAM60D00-xxx/PR/1500V (xxx=285-320, in steps of 5)

60 cells: JAM60D00-xxx/SC (xxx=260-285, in steps of 5) 60 cells: JAM60D00-xxx/BP (xxx=275-320, in steps of 5)

00 cells. JAINI00D00-XXX/DF (XXX-213-320, III steps of 3)

60 cells: JAM60D00-xxx/BP/1500V (xxx=275-320, in steps of 5)

60 cells: JAM60D00-xxx/MB (xxx=310-315, in steps of 5)

60 cells: JAM60D00-xxx/MB/1500V (xxx=310-315, in steps of 5)

60 cells: JAM60D09-xxx/BP (xxx=300-340, in steps of 5)

60 cells: JAM60D09-xxx/BP/1500V (xxx=300-340, in steps of 5)

Maximum system voltage:

1500V

Fuse rating:

20A

Application class:

Class A

Electrical protection class:

Class II

Module types:

PV Modules with Mono-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):

72 cells: JAM72D10-xxx/MB (xxx=385-430, in steps of 5)

72 cells: JAM72D10-xxx/MB/1500V (xxx=385-430, in steps of 5)

60 cells: JAM60D10-xxx/MB (xxx=320-355, in steps of 5)

60 cells: JAM60D10-xxx/MB/1500V (xxx=320-355, in steps of 5)

72 cells: JAM72D10-xxx/BP (xxx=385-415, in steps of 5)



Seite / Page 2 von / of 5

Aktenzeichen: / File reference: PVP04070/23P-03

2023-05-19

72 cells: JAM72D10-xxx/BP/1500V (xxx=385-415, in steps of 5)

60 cells: JAM60D10-xxx/BP (xxx=320-345, in steps of 5)

60 cells: JAM60D10-xxx/BP/1500V (xxx=320-345, in steps of 5)

78 cells: JAM78D10-xxx/MB (xxx=435-455, in steps of 5)

78 cells: JAM78D10-xxx/MB/1500V (xxx=435-455, in steps of 5)

66 cells: JAM66D10-xxx/MB (xxx=360-380, in steps of 5)

66 cells: JAM66D10-xxx/MB/1500V (xxx=360-380, in steps of 5)

72 cells: JAM72D20-xxx/MB (xxx=430-465, in steps of 5)

72 cells: JAM72D20-xxx/MB/1500V (xxx=430-465, in steps of 5)

60 cells: JAM60D20-xxx/MB (xxx=355-385, in steps of 5)

60 cells: JAM60D20-xxx/MB/1500V (xxx=355-385, in steps of 5)

72 cells: JAM72D10-xxx/TB (xxx=400-420, in steps of 5)

72 cells: JAM72D10-xxx/TB/1500V (xxx=400-420, in steps of 5)

60 cells: JAM60D10-xxx/TB (xxx=335-350, in steps of 5)

60 cells: JAM60D10-xxx/TB/1500V (xxx=335-350, in steps of 5)

Maximum system voltage:

1500V

Fuse rating:

20A or 25A

Application class:

Class A

Electrical protection class:

Class II

Module types:

PV Modules with 182mm Mono-crystalline Silicon half-cut Solar Cells:

78 cells: JAM78D30-xxx/MB (xxx=580-605, in steps of 5)

78 cells: JAM78D30-xxx/MB/1500V (xxx=580-605, in steps of 5)

72 cells: JAM72D30-xxx/MB (xxx=505-555, in steps of 5)

72 cells: JAM72D30-xxx/MB/1500V (xxx=505-555, in steps of 5)

72 cells: JAM72D30-xxx/MB/F (xxx=505-555, in steps of 5)

72 cells: JAM72D30-xxx/MB/F/1500V (xxx=505-555, in steps of 5)

66 cells: JAM66D30-xxx/MB (xxx=465-505, in steps of 5)

66 cells: JAM66D30-xxx/MB/1500V (xxx=465-505, in steps of 5)

66 cells: JAM66D30-xxx/MB/F (xxx=465-505, in steps of 5)

66 cells: JAM66D30-xxx/MB/F/1500V (xxx=465-505, in steps of 5)

60 cells: JAM60D30-xxx/MB (xxx=435-460, in steps of 5)

60 cells: JAM60D30-xxx/MB/1500V (xxx=435-460, in steps of 5)

54 cells: JAM54D30-xxx/MB (xxx=390-415, in steps of 5)

54 cells: JAM54D30-xxx/MB/1500V (xxx=390-415, in steps of 5)

54 cells: JAM54D31-xxx/MB (xxx=395-400, in steps of 5)

54 cells: JAM54D31-xxx/MB/1500V (xxx=395-400, in steps of 5)

78 cells: JAM78D30-xxx/GB (xxx=585-610, in steps of 5)



Seite / Page 3 von / of 5

Aktenzeichen: / File reference: PVP04070/23P-03

2023-05-19

78 cells: JAM78D30-xxx/GB/1500V (xxx=585-610, in steps of 5)

72 cells: JAM72D30-xxx/GB (xxx=540-560, in steps of 5)

72 cells: JAM72D30-xxx/GB/1500V (xxx=540-560, in steps of 5)

66 cells: JAM66D30-xxx/GB (xxx=495-510, in steps of 5)

66 cells: JAM66D30-xxx/GB/1500V (xxx=495-510, in steps of 5)

60 cells: JAM60D30-xxx/GB (xxx=450-470, in steps of 5)

60 cells: JAM60D30-xxx/GB/1500V (xxx=450-470, in steps of 5)

54 cells: JAM54D30-xxx/GB (xxx=405-420, in steps of 5)

54 cells: JAM54D30-xxx/GB/1500V (xxx=405-420, in steps of 5)

54 cells: JAM54D31-xxx/GB (xxx=410-420, in steps of 5)

54 cells: JAM54D31-xxx/GB/1500V (xxx=410-420, in steps of 5)

72 cells: JAM72D30-xxx/HB (xxx=530-560, in steps of 5)

72 cells: JAM72D30-xxx/HB/1500V (xxx=530-560, in steps of 5)

72 cells: JAM72D30-xxx/TB (xxx=540-580, in steps of 5)

72 cells: JAM72D30-xxx/TB/1500V (xxx=540-580, in steps of 5)

78 cells: JAM78D40-xxx/MB (xxx=580-630, in steps of 5)

78 cells: JAM78D40-xxx/MB/1500V (xxx=580-630, in steps of 5)

72 cells: JAM72D40-xxx/MB (xxx=540-580, in steps of 5)

72 cells: JAM72D40-xxx/MB/1500V (xxx=540-580, in steps of 5)

66 cells: JAM66D40-xxx/MB (xxx=500-530, in steps of 5)

66 cells: JAM66D40-xxx/MB/1500V (xxx=500-530, in steps of 5)

60 cells: JAM60D40-xxx/MB (xxx=455-480, in steps of 5)

60 cells: JAM60D40-xxx/MB/1500V (xxx=455-480, in steps of 5)

54 cells: JAM54D40-xxx/MB (xxx=405-435, in steps of 5)

54 cells: JAM54D40-xxx/MB/1500V (xxx=405-435, in steps of 5)

78 cells: JAM78D40-xxx/GB (xxx=580-635, in steps of 5)

78 cells: JAM78D40-xxx/GB/1500V (xxx=580-635, in steps of 5)

72 cells: JAM72D40-xxx/GB (xxx=540-585, in steps of 5)

72 cells: JAM72D40-xxx/GB/1500V (xxx=540-585, in steps of 5)

66 cells: JAM66D40-xxx/GB (xxx=500-535, in steps of 5)

66 cells: JAM66D40-xxx/GB/1500V (xxx=500-535, in steps of 5)

60 cells: JAM60D40-xxx/GB (xxx=455-485, in steps of 5)

60 cells: JAM60D40-xxx/GB/1500V (xxx=455-485, in steps of 5)

54 cells: JAM54D40-xxx/GB (xxx=405-440, in steps of 5)

54 cells: JAM54D40-xxx/GB/1500V (xxx=405-440, in steps of 5)

54 cells: JAM54D41-xxx/GB (xxx=415-435, in steps of 5)

54 cells: JAM54D41-xxx/GB/1500V (xxx=415-435, in steps of 5)

72 cells: JAM72D40-xxx/LB (xxx=575-600, in steps of 5)

72 cells: JAM72D40-xxx/LB/1500V (xxx=575-600, in steps of 5)

54 cells: JAM54D40-xxx/LB (xxx=420-450, in steps of 5)



Seite / Page 4 von / of 5

Aktenzeichen: / File reference: PVP04070/23P-03

2023-05-19

54 cells: JAM54D40-xxx/LB/1500V (xxx=420-450, in steps of 5)

54 cells: JAM54D41-xxx/LB (xxx=420-440, in steps of 5)

54 cells: JAM54D41-xxx/LB/1500V (xxx=420-440, in steps of 5)

72 cells: JAM72D42-xxx/LB (xxx=605-630, in steps of 5)

72 cells: JAM72D42-xxx/LB/1500V (xxx=605-630, in steps of 5)

72 cells: JAM72D30-xxx/LB (xxx=555-575, in steps of 5)

72 cells: JAM72D30-xxx/LB/1500V (xxx=555-575, in steps of 5)

54 cells: JAM54D30-xxx/LB (xxx=420-430, in steps of 5)

54 cells: JAM54D30-xxx/LB/1500V (xxx=420-430, in steps of 5)

Maximum system voltage:

1500V

Fuse rating:

30A

Application class:

Class A

Electrical protection class:

Class II

Module types:

PV Modules with 210mm Mono-crystalline Silicon 1/3-cut Solar

عالم:

50 cells: JAM50D40-xxx/MB (xxx=485-500, in steps of 5)

50 cells: JAM50D40-xxx/MB/1500V (xxx=485-500, in steps of 5)

Maximum system voltage:

1500V

Fuse rating:

30A

Application class:

Class A

Electrical protection class:

Class II

Module types:

PV Modules with 210mm Mono-crystalline Silicon 1/2-cut Solar

Cells:

66 cells: JAM66D35-xxx/MB (xxx=650-665, in steps of 5)

66 cells: JAM66D35-xxx/MB/1500V (xxx=650-665, in steps of 5)

60 cells: JAM60D35-xxx/MB (xxx=590-605, in steps of 5)

60 cells: JAM60D35-xxx/MB/1500V (xxx=590-605, in steps of 5)

Maximum system voltage:

1500V

Fuse rating:

30A

Application class:

Class A

Electrical protection class:

Class II

Module types:

PV Modules with Poly-crystalline Silicon Solar Cells (156mm to

158.75mm):

72 cells: JAP6(DG)-72-xxx/4BB/1500V (xxx=305-325, in steps of 5)

72 cells: JAP6(DG)-72-xxx/3BB/1500V (xxx=305-315, in steps of 5)



Seite / Page 5 von / of 5

Aktenzeichen: / File reference: PVP04070/23P-03

2023-05-19

72 cells: JAP6(DG)-72-xxx/4BB/RE/1500V (xxx=310-335, in steps of 5)

72 cells: JAP6(K)(DG)-72-xxx/4BB/1500V (xxx=310-335, in steps of 5)

72 cells: JAP72D00-xxx/SC (xxx=305-345, in steps of 5)

72 cells: JAP72D00-xxx/SC/1500V (xxx=310-340, in steps of 5)

72 cells: JAP72D00-xxx/PR (xxx=330-350, in steps of 5)

72 cells: JAP72D00-xxx/PR/1500V (xxx=330-345, in steps of 5)

72 cells: JAP72D09-xxx/SC (xxx=325-345, in steps of 5)

72 cells: JAP72D09-xxx/SC/1500V (xxx=330-345, in steps of 5)

60 cells: JAP6(DG)-60-xxx/4BB/1500V (xxx=250-275, in steps of 5)

60 cells: JAP6(DG)-60-xxx/3BB/1500V (xxx=245-265, in steps of 5)

60 cells: JAP6(DG)-60-xxx/4BB/RE/1500V (xxx=255-280, in steps of 5)

60 cells: JAP6(K)(DG)-60-xxx/4BB/1500V (xxx=255-280, in steps of 5)

60 cells: JAP60D00-xxx/SC (xxx=255-290, in steps of 5)

60 cells: JAP60D00-xxx/SC/1500V (xxx=260-285, in steps of 5)

60 cells: JAP60D00-xxx/PR (xxx=275-290, in steps of 5)

60 cells: JAP60D00-xxx/PR/1500V (xxx=275-290, in steps of 5)

60 cells: JAP60D09-xxx/SC (xxx=270-290, in steps of 5)

60 cells: JAP60D09-xxx/SC/1500V (xxx=275-290, in steps of 5)

Maximum system voltage:

1500V

Fuse rating:

20A

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.

TÜV NORD CERT GmbH Certification Body Consumer Products

Nugar X