

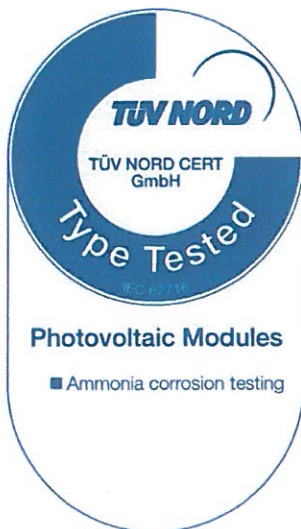
CERTIFICATE

TÜV NORD CERT GmbH

herewith declares that

Shanghai JA Solar Technology Co., Ltd.
No. 118, Lane 3111, West Huangcheng 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):

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

PV Modules with half-cut 6" Mono-crystalline Silicon Solar Cells


PV Modules with half-cut 6" Poly-crystalline Silicon Solar Cells

Valid until: 2024-05-13

Tested according to: IEC 62716:2013 / EN 62716:2013 + AC:2014.
Registered No.: 44 780 20 406749 - 026R2M2
Manufacturer: see Annex 1
Test Report No.: 492010517.016
File No.: SHV02072/20-01



Essen, 2020-06-08


TÜV NORD CERT GmbH
Certification Body
Consumer Products

Please also pay attention to the information stated overleaf.

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.:	862010153.007
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.:	862010241.006
Manufacturer 3:	JA Solar Co., Ltd. Jinglong Street, Ningjin County, 055550 Xingtai, Hebei, P.R. China
Factory inspection report no.:	862010244.006
Manufacturer 4:	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.:	862010290.004
Manufacturer 5:	Vina Solar Technology Co., Ltd. E12 factory, lot CN-03, Van Trung Industrial park, 21000 Bac Giang Province, Vietnam
Factory inspection report no.:	862010302.004
Manufacturer 6:	Philadelphia Solar LTD. CO Al Qastal Industrial Area, Air freight Road, 11814 Amman, Jordan
Factory inspection report no.:	862010431.001

Remark:

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

Description of product(s):

Module types:

PV Modules with 6" Mono-crystalline Silicon Solar Cells:

72 cells: JAM6(L)-72- xxx (xxx=295-335, in steps of 5)
72 cells: JAM6-72- xxx/SI (xxx=285-325, in steps of 5)
72 cells: JAM6(R)-72-xxx (xxx=295-340, in steps of 5)
72 cells: JAM6(R)-72-xxx/PR (xxx=330-350, in steps of 5)
72 cells: JAM6-72-xxx/PR (xxx=325-345, in steps of 5)
72 cells: JAM6(L)-72-xxx/PR (xxx=325-345, in steps of 5)
72 cells: JAM6(K)-72-xxx/4BB (xxx=320-340, in steps of 5)
72 cells: JAM6(K)-72-xxx/PR (xxx=325-360, in steps of 5)
72 cells: JAM72S02-xxx/PR (xxx=325-390, in steps of 5)
60 cells: JAM6(L)-60-xxx (xxx=255-280, in steps of 5)
60 cells: JAM6-60-xxx/SI (xxx=235-280, in steps of 5)
60 cells: JAM6(FA)-60-xxx/SI (xxx=255-275, in steps of 5)
60 cells: JAM6(R)(FA)-60-xxx (xxx=260-280, in steps of 5)
60 cells: JAM6(R)-60-xxx (xxx=255-280, in steps of 5)
60 cells: JAM6(R)-60-xxx/PR (xxx=280-300, in steps of 5)
60 cells: JAM6-60-xxx/PR (xxx=275-295, in steps of 5)
60 cells: JAM6(L)-60-xxx/PR (xxx=270-295, in steps of 5)
60 cells: JAM6(K)-60-xxx/4BB (xxx=265-290, in steps of 5)
60 cells: JAM6(K)-60-xxx/PR (xxx=275-305, in steps of 5)
60 cells: JAM60S02-xxx/PR (xxx=280-325, in steps of 5)
48 cells: JAM6(FA)-48-xxx/SI (xxx=205-220, in steps of 5)
48 cells: JAM6(R)(FA)-48-xxx (xxx=210-225, in steps of 5)
48 cells: JAM6(R)-48-xxx/PR (xxx=220-235, in steps of 5)
48 cells: JAM6-48-xxx/PR (xxx=215-235, in steps of 5)
48 cells: JAM6(L)-48-xxx/PR (xxx=215-235, in steps of 5)
48 cells: JAM6(K)-48xxx/4BB (xxx=210-225, in steps of 5)
48 cells: JAM6(K)-48-xxx/PR (xxx=220-235, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 5" Mono-crystalline Silicon Solar Cells:**
72 cells: JAM5-72-xxx/SI (xxx=180-210, in steps of 5)
72 cells: JAM5(L)-72-xxx/SI (xxx=180-220, in steps of 5)
72 cells: JAM5(R)-72-xxx (xxx=195-220, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 10A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 6" Poly-crystalline Silicon Solar Cells:**
72 cells: JAP6-72-xxx/3BB (xxx=250-330, in steps of 5)
72 cells: JAP6-72-xxx/4BB (xxx=305-330, in steps of 5)
72 cells: JAP6-72-xxx/RE (xxx=305-330, in steps of 5)
72 cells: JAP6-72-xxx/4BB/RE (xxx=305-330, in steps of 5)
72 cells: JAP6(K)-72-xxx/4BB (xxx=305-330, in steps of 5)
60 cells: JAP6-60-xxx/3BB (xxx=240-275, in steps of 5)
60 cells: JAP6(FA)-60-xxx/3BB (xxx=250-270, in steps of 5)
60 cells: JAP6-60-xxx/4BB (xxx=250-275, in steps of 5)
60 cells: JAP6-60-xxx/RE (xxx=255-280, in steps of 5)
60 cells: JAP6-60-xxx/4BB/RE (xxx=255-280, in steps of 5)
60 cells: JAP6(K)-60-xxx/4BB (xxx=255-275, in steps of 5)
48 cells: JAP6(FA)-48-xxx/3BB (xxx=200-220, in steps of 5)
48 cells: JAP6-48-xxx/3BB (xxx=200-220, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 6" Poly-crystalline Silicon Solar Cells:**
72 cells: JAP6(K)-72-xxx/4BB/1500V (xxx=305-330, in steps of 5)
60 cells: JAP6(K)-60-xxx/4BB/1500V (xxx=255-275, 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 6" Mono-crystalline Silicon Solar Cells: 72 cells: JAM6(K)-72-xxx/PR/1500V (xxx=345-365, in steps of 5) 72 cells: JAM6(K)-72-xxx/4BB/1500V (xxx=320-340, in steps of 5) 60 cells: JAM6(K)-60-xxx/PR/1500V (xxx=285-305, in steps of 5) 60 cells: JAM6(K)-60-xxx/4BB/1500V (xxx=265-290, 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 6" Mono-crystalline Silicon Solar Cells: 72 cells: JAM72S01-xxx/SC (xxx=320-365, in steps of 5) 72 cells: JAM72S02-xxx/SC (xxx=320-365, in steps of 5) 72 cells: JAM72S01-xxx/PR (xxx=325-390, in steps of 5) 72 cells: JAM72S02-xxx/PR (xxx=345-390, in steps of 5) 72 cells: JAM72S01-xxx/MR (xxx=360-390, in steps of 5) 72 cells: JAM72S02-xxx/MR (xxx=360-390, in steps of 5) 72 cells: JAM72S09-xxx/PR (xxx=365-405, in steps of 5) 72 cells: JAM72S12-xxx/PR (xxx=365-390, in steps of 5) 72 cells: JAM72S09-xxx/BP (xxx=375-385, in steps of 5) 60 cells: JAM60S01-xxx/SC (xxx=265-305, in steps of 5) 60 cells: JAM60S02-xxx/SC (xxx=265-305, in steps of 5) 60 cells: JAM60S01-xxx/PR (xxx=280-325, in steps of 5) 60 cells: JAM60S02-xxx/PR (xxx=285-325, in steps of 5) 60 cells: JAM60S01-xxx/MR (xxx=300-330, in steps of 5) 60 cells: JAM60S02-xxx/MR (xxx=300-340, in steps of 5) 60 cells: JAM60S09-xxx/PR (xxx=305-335, in steps of 5) 60 cells: JAM60S12-xxx/PR (xxx=305-330, in steps of 5) 60 cells: JAM60S09-xxx/BP (xxx=315-320, in steps of 5)
Maximum system voltage:	1000V or 1500V
Fuse rating:	20A
Application class:	Class A
Electrical protection class:	Class II

Module types:

PV Modules with half-cut 6" Mono-crystalline Silicon Solar Cells:

78 cells: JAM78S10-xxx/MR (xxx=410-455, in steps of 5)
78 cells: JAM78S10-xxx/MR-J (xxx=435-455, in steps of 5)
72 cells: JAM72S03-xxx/PR (xxx=355-400, in steps of 5)
72 cells: JAM72S10-xxx/PR (xxx=365-415, in steps of 5)
72 cells: JAM72S17-xxx/PR (xxx=380-415, in steps of 5)
72 cells: JAM72S10-xxx/MR (xxx=390-420, in steps of 5)
72 cells: JAM72S17-xxx/MR (xxx=390-410, in steps of 5)
72 cells: JAM72S10-xxx/BP (xxx=385-400, in steps of 5)
72 cells: JAM72S10-xxx/MB (xxx=395-415, in steps of 5)
72 cells: JAM72S20-xxx/MR (xxx=430-450, in steps of 5)
66 cells: JAM66S10-xxx/MR (xxx=345-380, in steps of 5)
60 cells: JAM60S03-xxx/PR (xxx=295-335, in steps of 5)
60 cells: JAM60S10-xxx/PR (xxx=305-345, in steps of 5)
60 cells: JAM60S17-xxx/PR (xxx=315-345, in steps of 5)
60 cells: JAM60S10-xxx/MR (xxx=320-345, in steps of 5)
60 cells: JAM60S17-xxx/MR (xxx=320-340, in steps of 5)
60 cells: JAM60S10-xxx/BP (xxx=320-330, in steps of 5)
60 cells: JAM60S10-xxx/MB (xxx=330-345, in steps of 5)
60 cells: JAM60S20-xxx/MR (xxx=355-375, in steps of 5)

Maximum system voltage:

1000V or 1500V

Fuse rating:

20A

Application class:

Class A

Electrical protection class:

Class II

Module types:

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

72 cells: JAP72S01-xxx/SC (xxx=305-345, in steps of 5)
72 cells: JAP72S02-xxx/SC (xxx=310-345, in steps of 5)
72 cells: JAP72S01-xxx/PR (xxx=330-345, in steps of 5)
72 cells: JAP72S02-xxx/PR (xxx=330-345, in steps of 5)
72 cells: JAP72S09-xxx/SC (xxx=320-345, in steps of 5)
72 cells: JAP72S01-xxx/MS (xxx=325-345, in steps of 5)
60 cells: JAP60S01-xxx/SC (xxx=250-290, in steps of 5)
60 cells: JAP60S02-xxx/SC (xxx=255-290, in steps of 5)
60 cells: JAP60S01-xxx/PR (xxx=275-285, in steps of 5)
60 cells: JAP60S02-xxx/PR (xxx=275-285, in steps of 5)
60 cells: JAP60S09-xxx/SC (xxx=265-290, in steps of 5)
60 cells: JAP60S01-xxx/MS (xxx=270-290, in steps of 5)
54 cells: JAP54S01-xxx/SC (xxx=245-255, in steps of 5)

Maximum system voltage:

1000V or 1500V

Fuse rating:

20A

Application class:

Class A

Electrical protection class:

Class II

Module types:

PV Modules with half-cut 6" Poly-crystalline Silicon Solar Cells:

72 cells: JAP72S03-xxx/PR (xxx=335-380, in steps of 5)
72 cells: JAP72S03-xxx/SC (xxx=320-350, in steps of 5)
72 cells: JAP72S10-xxx/SC (xxx=335-350, in steps of 5)
72 cells: JAP72S03-xxx/MS (xxx=320-355, in steps of 5)
60 cells: JAP60S03-xxx/PR (xxx=280-315, in steps of 5)
60 cells: JAP60S03-xxx/SC (xxx=270-300, in steps of 5)
60 cells: JAP60S10-xxx/SC (xxx=275-290, in steps of 5)
60 cells: JAP60S03-xxx/MS (xxx=265-305, in steps of 5)

Maximum system voltage:

1000V or 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.



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