

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

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC 62716:2013 / EN 62716:2013 + AC:2014.
Registered No.:	44 780 23 406749 - 192R2A1M3
Manufacturer:	see Annex 1
Test Report No.:	492012552.004
File No.:	PVP01078/23P-02

Valid until: 2026-09-29



Essen, 2023-09-15



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.: 862010153.011
- 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.: 862010241.010
- 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: **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 5: **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 6: **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.: 862010560.003
- Manufacturer 7: **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



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Manufacturer 8: **HSA ENERJI A.S.**
OSB III. Kisim Keciliköy OSB Mah., Mustafa Kemal Bulvari No:15/1.,
45030 Yunusemre – Manisa, TURKEY

Factory inspection report no.: 862010735.001

Manufacturer 9: **Dongtai JA Solar Technology Co., Ltd.**
No.8 Zaofeng North Road, Dongtai High-tech Zone, Dongtai City, 224248
Yancheng City, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA

Factory inspection report no.: 862010802.001

Remark:

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



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Description of product(s):

Module types:

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

- 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=320-345, in steps of 5)
- 72 cells: JAM6(K)-72-xxx/PR (xxx=325-370, in steps of 5)
- 72 cells: JAM72S02-xxx/PR (xxx=325-390, in steps of 5)
- 72 cells: JAM72S01-xxx/PR/1000V (xxx=345-390, in steps of 5)
- 72 cells: JAM72S01-xxx/SC/1000V (xxx=320-365, in steps of 5)
- 72 cells: JAM72S01-xxx/MR/1000V (xxx=365-385, in steps of 5)
- 72 cells: JAM72S09-xxx/PR/1000V (xxx=370-405, in steps of 5)
- 72 cells: JAM72S09-xxx/BP/1000V (xxx=375-385, in steps of 5)
- 72 cells: JAM72S02-xxx/PR/1000V (xxx=345-390, in steps of 5)
- 72 cells: JAM72S02-xxx/SC/1000V (xxx=320-365, in steps of 5)
- 72 cells: JAM72S02-xxx/MR/1000V (xxx=365-385, in steps of 5)
- 72 cells: JAM72S12-xxx/PR/1000V (xxx=365-385, 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=265-285, in steps of 5)
- 60 cells: JAM6(K)-60-xxx/PR (xxx=275-310, in steps of 5)
- 60 cells: JAM60S02-xxx/PR (xxx=280-325, in steps of 5)
- 60 cells: JAM60S01-xxx/PR/1000V (xxx=285-325, in steps of 5)
- 60 cells: JAM60S01-xxx/SC/1000V (xxx=265-305, in steps of 5)
- 60 cells: JAM60S01-xxx/MR/1000V (xxx=305-320, in steps of 5)
- 60 cells: JAM60S09-xxx/PR/1000V (xxx=310-335, in steps of 5)
- 60 cells: JAM60S09-xxx/BP/1000V (xxx=315-320, in steps of 5)
- 60 cells: JAM60S02-xxx/PR/1000V (xxx=285-325, in steps of 5)
- 60 cells: JAM60S02-xxx/SC/1000V (xxx=265-305, in steps of 5)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

60 cells: JAM60S02-xxx/MR/1000V (xxx=305-320, in steps of 5)
60 cells: JAM60S12-xxx/PR/1000V (xxx=305-330, 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 125mm 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 Mono-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):**

72 cells: JAM72S03-xxx/PR/1000V (xxx=360-395, in steps of 5)
72 cells: JAM72S10-xxx/PR/1000V (xxx=380-410, in steps of 5)
72 cells: JAM72S10-xxx/BP/1000V (xxx=385-400, in steps of 5)
72 cells: JAM72S10-xxx/MR/1000V (xxx=390-430, in steps of 5)
72 cells: JAM72S10-xxx/MB/1000V (xxx=395-415, in steps of 5)
72 cells: JAM72S08-xxx/PR/1000V (xxx=360-395, in steps of 5)
72 cells: JAM72S17-xxx/PR/1000V (xxx=380-390, in steps of 5)
72 cells: JAM72S17-xxx/MR/1000V (xxx=390-430, in steps of 5)
72 cells: JAM72S17-xxx/GR/1000V (xxx=385-400, in steps of 5)
60 cells: JAM60S03-xxx/PR/1000V (xxx=300-330, in steps of 5)
60 cells: JAM60S10-xxx/PR/1000V (xxx=315-345, in steps of 5)
60 cells: JAM60S10-xxx/BP/1000V (xxx=320-330, in steps of 5)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

60 cells: JAM60S10-xxx/MR/1000V (xxx=325-355, in steps of 5)
60 cells: JAM60S10-xxx/MB/1000V (xxx=330-345, in steps of 5)
60 cells: JAM60S08-xxx/PR/1000V (xxx=300-330, in steps of 5)
60 cells: JAM60S17-xxx/PR/1000V (xxx=315-325, in steps of 5)
60 cells: JAM60S17-xxx/MR/1000V (xxx=315-355, in steps of 5)
78 cells: JAM78S10-xxx/MR/1000V (xxx=435-465, in steps of 5)
66 cells: JAM66S10-xxx/MR/1000V (xxx=345-390, 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 Mono-crystalline Silicon half-cut Solar Cells (166mm to 168mm):**

72 cells: JAM72S20-xxx/MR/1000V (xxx=430-470, in steps of 5)
72 cells: JAM72S20-xxx/MB/1000V (xxx=450-465, in steps of 5)
60 cells: JAM60S20-xxx/MR/1000V (xxx=355-390, in steps of 5)
60 cells: JAM60S21-xxx/MR/1000V (xxx=355-390, in steps of 5)
60 cells: JAM60S20-xxx/MB/1000V (xxx=375-390, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

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

60 cells: JAM60S30-xxx/MR/1000V (xxx=435-460, in steps of 5)
66 cells: JAM66S30-xxx/MR/1000V (xxx=470-505, in steps of 5)
72 cells: JAM72S30-xxx/MR/1000V (xxx=510-555, in steps of 5)
78 cells: JAM78S30-xxx/MR/1000V (xxx=580-605, in steps of 5)
54 cells: JAM54S30-xxx/MR/1000V (xxx=390-425, in steps of 5)
78 cells: JAM78S30-xxx/GR/1000V (xxx=575-610, in steps of 5)
72 cells: JAM72S30-xxx/GR/1000V (xxx=535-560, in steps of 5)
66 cells: JAM66S30-xxx/GR/1000V (xxx=500-510, in steps of 5)
60 cells: JAM60S30-xxx/GR/1000V (xxx=445-470, in steps of 5)
54 cells: JAM54S30-xxx/GR/1000V (xxx=400-420, in steps of 5)
72 cells: JAM72S31-xxx/MR/1000V (xxx=510-545, in steps of 5)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

66 cells: JAM66S31-xxx/MR/1000V (xxx=470-500, in steps of 5)
60 cells: JAM60S31-xxx/MR/1000V (xxx=425-450, in steps of 5)
54 cells: JAM54S31-xxx/MR/1000V (xxx=385-405, in steps of 5)
78 cells: JAM78S31-xxx/GR/1000V (xxx=570-590, in steps of 5)
72 cells: JAM72S31-xxx/GR/1000V (xxx=525-545, in steps of 5)
66 cells: JAM66S31-xxx/GR/1000V (xxx=480-500, in steps of 5)
60 cells: JAM60S31-xxx/GR/1000V (xxx=435-450, in steps of 5)
54 cells: JAM54S31-xxx/GR/1000V (xxx=395-415, in steps of 5)
72 cells: JAM72S40-xxx/GR/1000V (xxx=540-575, in steps of 5)
66 cells: JAM66S40-xxx/GR/1000V (xxx=495-525, in steps of 5)
60 cells: JAM60S40-xxx/GR/1000V (xxx=450-480, in steps of 5)
54 cells: JAM54S40-xxx/GR/1000V (xxx=405-430, in steps of 5)
72 cells: JAM72S41-xxx/GR/1000V (xxx=540-570, in steps of 5)
66 cells: JAM66S41-xxx/GR/1000V (xxx=495-525, in steps of 5)
60 cells: JAM60S41-xxx/GR/1000V (xxx=450-475, in steps of 5)
54 cells: JAM54S41-xxx/GR/1000V (xxx=405-430, in steps of 5)
72 cells: JAM72S30-xxx/LR/1000V (xxx=555-580, in steps of 5)
54 cells: JAM54S30-xxx/LR/1000V (xxx=415-435, in steps of 5)
54 cells: JAM54S31-xxx/LR/1000V (xxx=415-420, in steps of 5)
54 cells: JAM54S30-xxx/MB/1000V (xxx=385-410, in steps of 5)
54 cells: JAM54S31-xxx/MB/1000V (xxx=385-405, in steps of 5)
54 cells: JAM54S30-xxx/LB/1000V (xxx=410-425, in steps of 5)
54 cells: JAM54S31-xxx/LB/1000V (xxx=410-415, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 210mm Mono-crystalline Silicon 1/3-cut Solar Cells:**

50 cells: JAM50S40-xxx/MR/1000V (xxx=490-500, in steps of 5)
66 cells: JAM66S35-xxx/MR/1000V (xxx=650-670, in steps of 5)
60 cells: JAM60S35-xxx/MR/1000V (xxx=590-610, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Module types: **PV Modules with 182mm Mono-crystalline Silicon 1/5-cut Solar Cells:**
76 cells: JAM76S11-xxx/PR(B)/1000V (xxx=395-415, in steps of 5)

Maximum system voltage: 1000V

Fuse rating: 25A

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: JAP6-72-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=310-330, in steps of 5)
72 cells: JAP72S01-xxx/SC/1000V (xxx=310-345, in steps of 5)
72 cells: JAP72S01-xxx/PR/1000V (xxx=330-345, in steps of 5)
72 cells: JAP72S09-xxx/SC/1000V (xxx=320-345, in steps of 5)
72 cells: JAP72S01-xxx/MS/1000V (xxx=325-340, in steps of 5)
72 cells: JAP72S02-xxx/SC/1000V (xxx=310-345, in steps of 5)
72 cells: JAP72S02-xxx/PR/1000V (xxx=330-345, 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)
60 cells: JAP60S01-xxx/SC/1000V (xxx=255-290, in steps of 5)
60 cells: JAP60S01-xxx/PR/1000V (xxx=275-285, in steps of 5)
60 cells: JAP60S09-xxx/SC/1000V (xxx=265-290, in steps of 5)
60 cells: JAP60S01-xxx/MS/1000V (xxx=270-280, in steps of 5)
60 cells: JAP60S02-xxx/SC/1000V (xxx=255-290, in steps of 5)
60 cells: JAP60S02-xxx/PR/1000V (xxx=275-285, in steps of 5)
54 cells: JAP54S01-xxx/SC (xxx=245-255, 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 Poly-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):**

72 cells: JAP72S03-xxx/SC/1000V (xxx=320-345, in steps of 5)
72 cells: JAP72S03-xxx/PR/1000V (xxx=335-355, in steps of 5)
72 cells: JAP72S10-xxx/SC/1000V (xxx=335-350, in steps of 5)
72 cells: JAP72S03-xxx/MS/1000V (xxx=320-345, in steps of 5)
72 cells: JAP72S08-xxx/SC/1000V (xxx=320-345, in steps of 5)
72 cells: JAP72S08-xxx/PR/1000V (xxx=335-355, in steps of 5)
60 cells: JAP60S03-xxx/SC/1000V (xxx=270-290, in steps of 5)
60 cells: JAP60S03-xxx/PR/1000V (xxx=280-295, in steps of 5)
60 cells: JAP60S10-xxx/SC/1000V (xxx=275-290, in steps of 5)
60 cells: JAP60S03-xxx/MS/1000V (xxx=270-285, in steps of 5)
60 cells: JAP60S08-xxx/SC/1000V (xxx=270-290, in steps of 5)
60 cells: JAP60S08-xxx/PR/1000V (xxx=280-295, 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 Mono-crystalline Silicon Solar Cells (156mm to 158.75mm):**

72 cells: JAM6(K)-72-xxx/PR/1500V (xxx=345-370, in steps of 5)
72 cells: JAM6(K)-72-xxx/4BB/1500V (xxx=320-345, in steps of 5)
72 cells: JAM72S01-xxx/PR (xxx=345-390, in steps of 5)
72 cells: JAM72S01-xxx/SC/1500V (xxx=320-365, in steps of 5)
72 cells: JAM72S01-xxx/MR/1500V (xxx=365-385, in steps of 5)
72 cells: JAM72S09-xxx/PR/1500V (xxx=370-405, in steps of 5)
72 cells: JAM72S09-xxx/BP/1500V (xxx=375-385, in steps of 5)
72 cells: JAM72S02-xxx/PR/1500V (xxx=345-390, in steps of 5)
72 cells: JAM72S02-xxx/SC/1500V (xxx=320-365, in steps of 5)
72 cells: JAM72S02-xxx/MR/1500V (xxx=365-385, in steps of 5)
72 cells: JAM72S12-xxx/PR/1500V (xxx=365-385, in steps of 5)
60 cells: JAM6(K)-60-xxx/PR/1500V (xxx=285-310, in steps of 5)
60 cells: JAM6(K)-60-xxx/4BB/1500V (xxx=265-285, in steps of 5)
60 cells: JAM60S01-xxx/PR/1500V (xxx=285-325, in steps of 5)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

60 cells: JAM60S01-xxx/SC/1500V (xxx=265-305, in steps of 5)
60 cells: JAM60S01-xxx/MR/1500V (xxx=305-320, in steps of 5)
60 cells: JAM60S09-xxx/PR/1500V (xxx=310-335, in steps of 5)
60 cells: JAM60S09-xxx/BP/1500V (xxx=315-320, in steps of 5)
60 cells: JAM60S02-xxx/PR/1500V (xxx=285-325, in steps of 5)
60 cells: JAM60S02-xxx/SC/1500V (xxx=265-305, in steps of 5)
60 cells: JAM60S02-xxx/MR/1500V (xxx=305-320, in steps of 5)
60 cells: JAM60S12-xxx/PR/1500V (xxx=305-330, in steps of 5)
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)
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**



TÜV NORD CERT GmbH
Certification Body
Consumer Products

(156mm to 158.75mm):

72 cells: JAM72S03-xxx/PR/1500V (xxx=360-395, in steps of 5)
72 cells: JAM72S10-xxx/PR/1500V (xxx=380-410, in steps of 5)
72 cells: JAM72S10-xxx/BP/1500V (xxx=385-400, in steps of 5)
72 cells: JAM72S10-xxx/MR/1500V (xxx=390-430, in steps of 5)
72 cells: JAM72S10-xxx/MB/1500V (xxx=395-415, in steps of 5)
72 cells: JAM72S08-xxx/PR/1500V (xxx=360-395, in steps of 5)
72 cells: JAM72S17-xxx/PR/1500V (xxx=380-390, in steps of 5)
72 cells: JAM72S17-xxx/MR/1500V (xxx=390-430, in steps of 5)
72 cells: JAM72S17-xxx/GR/1500V (xxx=385-400, in steps of 5)
60 cells: JAM60S03-xxx/PR/1500V (xxx=300-330, in steps of 5)
60 cells: JAM60S10-xxx/PR/1500V (xxx=315-345, in steps of 5)
60 cells: JAM60S10-xxx/BP/1500V (xxx=320-330, in steps of 5)
60 cells: JAM60S10-xxx/MR/1500V (xxx=325-355, in steps of 5)
60 cells: JAM60S10-xxx/MB/1500V (xxx=330-345, in steps of 5)
60 cells: JAM60S20-xxx/MR/1500V (xxx=355-390, in steps of 5)
60 cells: JAM60S21-xxx/MR/1500V (xxx=355-390, in steps of 5)
60 cells: JAM60S08-xxx/PR/1500V (xxx=300-330, in steps of 5)
60 cells: JAM60S17-xxx/PR/1500V (xxx=315-325, in steps of 5)
60 cells: JAM60S17-xxx/MR/1500V (xxx=315-355, in steps of 5)
78 cells: JAM78S10-xxx/MR/1500V (xxx=435-465, in steps of 5)
66 cells: JAM66S10-xxx/MR/1500V (xxx=345-390, in steps of 5)
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)
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)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

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
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with Mono-crystalline Silicon half-cut Solar Cells (166mm to 168mm):**

72 cells: JAM72S20-xxx/MR/1500V (xxx=430-470, in steps of 5)
72 cells: JAM72S20-xxx/MB/1500V (xxx=450-465, in steps of 5)
60 cells: JAM60S20-xxx/MB/1500V (xxx=375-390, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 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: JAM78S30-xxx/MR/1500V (xxx=580-605, in steps of 5)
72 cells: JAM72S30-xxx/MR/1500V (xxx=510-555, in steps of 5)
66 cells: JAM66S30-xxx/MR/1500V (xxx=470-505, in steps of 5)
60 cells: JAM60S30-xxx/MR/1500V (xxx=435-460, in steps of 5)
54 cells: JAM54S30-xxx/MR/1500V (xxx=390-425, in steps of 5)
78 cells: JAM78S30-xxx/GR/1500V (xxx=575-610, in steps of 5)
72 cells: JAM72S30-xxx/GR/1500V (xxx=535-560, in steps of 5)
66 cells: JAM66S30-xxx/GR/1500V (xxx=500-510, in steps of 5)
60 cells: JAM60S30-xxx/GR/1500V (xxx=445-470, in steps of 5)
54 cells: JAM54S30-xxx/GR/1500V (xxx=400-420, in steps of 5)
72 cells: JAM72S31-xxx/MR/1500V (xxx=510-545, in steps of 5)
66 cells: JAM66S31-xxx/MR/1500V (xxx=470-500, in steps of 5)
60 cells: JAM60S31-xxx/MR/1500V (xxx=425-450, in steps of 5)
54 cells: JAM54S31-xxx/MR/1500V (xxx=385-405, in steps of 5)
78 cells: JAM78S31-xxx/GR/1500V (xxx=575-590, in steps of 5)
72 cells: JAM72S31-xxx/GR/1500V (xxx=525-545, in steps of 5)
66 cells: JAM66S31-xxx/GR/1500V (xxx=480-500, in steps of 5)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

60 cells: JAM60S31-xxx/GR/1500V (xxx=435-450, in steps of 5)
54 cells: JAM54S31-xxx/GR/1500V (xxx=395-415, in steps of 5)
72 cells: JAM72S40-xxx/GR/1500V (xxx=540-575, in steps of 5)
66 cells: JAM66S40-xxx/GR/1500V (xxx=495-525, in steps of 5)
60 cells: JAM60S40-xxx/GR/1500V (xxx=450-480, in steps of 5)
54 cells: JAM54S40-xxx/GR/1500V (xxx=405-430, in steps of 5)
72 cells: JAM72S41-xxx/GR/1500V (xxx=540-570, in steps of 5)
66 cells: JAM66S41-xxx/GR/1500V (xxx=495-525, in steps of 5)
60 cells: JAM60S41-xxx/GR/1500V (xxx=450-475, in steps of 5)
54 cells: JAM54S41-xxx/GR/1500V (xxx=405-430, in steps of 5)
72 cells: JAM72S30-xxx/LR/1500V (xxx=555-580, in steps of 5)
54 cells: JAM54S30-xxx/LR/1500V (xxx=415-435, in steps of 5)
54 cells: JAM54S31-xxx/LR/1500V (xxx=415-420, in steps of 5)
54 cells: JAM54S30-xxx/MB/1500V (xxx=385-410, in steps of 5)
54 cells: JAM54S31-xxx/MB/1500V (xxx=385-405, in steps of 5)
54 cells: JAM54S30-xxx/LB/1500V (xxx=410-425, in steps of 5)
54 cells: JAM54S31-xxx/LB/1500V (xxx=410-415, in steps of 5)
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)
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)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

60 cells: JAM60D30-xxx/GB (xxx=450-470, in steps of 5)
60 cells: JAM60D30-xxx/GB/1500V (xxx=450-470/1500V, 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=540-585, in steps of 5)
72 cells: JAM72D40-xxx/MB/1500V (xxx=540-585, in steps of 5)
66 cells: JAM66D40-xxx/MB (xxx=500-535, in steps of 5)
66 cells: JAM66D40-xxx/MB/1500V (xxx=500-535, in steps of 5)
60 cells: JAM60D40-xxx/MB (xxx=455-485, in steps of 5)
60 cells: JAM60D40-xxx/MB/1500V (xxx=455-485, in steps of 5)
54 cells: JAM54D40-xxx/MB (xxx=405-440, in steps of 5)
54 cells: JAM54D40-xxx/MB/1500V (xxx=405-440, 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)
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)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

72 cells: JAM72D42-xxx/LB/1500V (xxx=605-630, in steps of 5)
54 cells: JAM54D42-xxx/LB (xxx=455-470, in steps of 5)
54 cells: JAM54D42-xxx/LB/1500V (xxx=455-470, 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)
66 cells: JAM66D42-xxx/MB (xxx=555-575, in steps of 5)
66 cells: JAM66D42-xxx/MB/1500V (xxx=555-575 in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 25A or 30A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 210mm Mono-crystalline Silicon 1/3-cut Solar Cells:**

50 cells: JAM50S40-xxx/MR/1500V (xxx=490-500, in steps of 5)
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: 25A
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: JAM66S35-xxx/MR/1500V (xxx=650-670, in steps of 5)
60 cells: JAM60S35-xxx/MR/1500V (xxx=590-610, in steps of 5)
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)
66 cells: JAM66D45-xxx/LB (xxx=585-605, in steps of 5)
66 cells: JAM66D45-xxx/LB /1500V (xxx=585-605, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 25A
Application class: Class A



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Electrical protection class: Class II

Module types: **PV Modules with 182mm Mono-crystalline Silicon 1/5-cut Solar Cells:**

76 cells: JAM76S11-xxx/PR(B)/1500V (xxx=395-415, in steps of 5)

Maximum system voltage: 1500V

Fuse rating: 25A

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(K)-72-xxx/4BB/1500V (xxx=310-330, in steps of 5)

72 cells: JAP72S01-xxx/SC/1500V (xxx=310-345, in steps of 5)

72 cells: JAP72S01-xxx/PR/1500V (xxx=330-345, in steps of 5)

72 cells: JAP72S09-xxx/SC/1500V (xxx=320-345, in steps of 5)

72 cells: JAP72S01-xxx/MS/1500V (xxx=325-340, in steps of 5)

72 cells: JAP72S02-xxx/SC/1500V (xxx=310-345, in steps of 5)

72 cells: JAP72S02-xxx/PR/1500V (xxx=330-345, in steps of 5)

60 cells: JAP6(K)-60-xxx/4BB/1500V (xxx=255-275, in steps of 5)

60 cells: JAP60S01-xxx/SC/1500V (xxx=255-290, in steps of 5)

60 cells: JAP60S01-xxx/PR/1500V (xxx=275-285, in steps of 5)

60 cells: JAP60S09-xxx/SC/1500V (xxx=265-290, in steps of 5)

60 cells: JAP60S01-xxx/MS/1500V (xxx=270-280, in steps of 5)

60 cells: JAP60S02-xxx/SC/1500V (xxx=255-290, in steps of 5)

60 cells: JAP60S02-xxx/PR/1500V (xxx=275-285, in steps of 5)

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)

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)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

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

Module types:

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

72 cells: JAP72S03-xxx/SC/1500V (xxx=320-345, in steps of 5)
72 cells: JAP72S03-xxx/PR/1500V (xxx=335-355, in steps of 5)
72 cells: JAP72S10-xxx/SC/1500V (xxx=335-350, in steps of 5)
72 cells: JAP72S03-xxx/MS/1500V (xxx=320-345, in steps of 5)
72 cells: JAP72S08-xxx/SC/1500V (xxx=320-345, in steps of 5)
72 cells: JAP72S08-xxx/PR/1500V (xxx=335-355, in steps of 5)
60 cells: JAP60S03-xxx/SC/1500V (xxx=270-290, in steps of 5)
60 cells: JAP60S03-xxx/PR/1500V (xxx=280-295, in steps of 5)
60 cells: JAP60S10-xxx/SC/1500V (xxx=275-290, in steps of 5)
60 cells: JAP60S03-xxx/MS/1500V (xxx=270-285, in steps of 5)
60 cells: JAP60S08-xxx/SC/1500V (xxx=270-290, in steps of 5)
60 cells: JAP60S08-xxx/PR/1500V (xxx=280-295, 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 Solar Cells (156mm to 158.75mm):

72 cells: JAM72S01-xxx/SC (xxx=320-365, in steps of 5)
72 cells: JAM72S02-xxx/SC (xxx=320-365, in steps of 5)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

72 cells: JAM72S02-xxx/PR (xxx=345-390, in steps of 5)
72 cells: JAM72S01-xxx/MR (xxx=365-385, in steps of 5)
72 cells: JAM72S02-xxx/MR (xxx=365-385, in steps of 5)
72 cells: JAM72S09-xxx/PR (xxx=370-405, in steps of 5)
72 cells: JAM72S12-xxx/PR (xxx=365-385, 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=285-325, in steps of 5)
60 cells: JAM60S02-xxx/PR (xxx=285-325, in steps of 5)
60 cells: JAM60S01-xxx/MR (xxx=305-320, in steps of 5)
60 cells: JAM60S02-xxx/MR (xxx=305-320, in steps of 5)
60 cells: JAM60S09-xxx/PR (xxx=310-335, 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 Mono-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):

72 cells: JAM72S03-xxx/PR (xxx=360-395, in steps of 5)
72 cells: JAM72S10-xxx/PR (xxx=380-410, in steps of 5)
72 cells: JAM72S17-xxx/PR (xxx=380-390, in steps of 5)
72 cells: JAM72S10-xxx/MR (xxx=390-430, in steps of 5)
72 cells: JAM72S17-xxx/MR (xxx=390-430, in steps of 5)
72 cells: JAM72S17-xxx/GR (xxx=385-400, 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: JAM72S08-xxx/PR (xxx=360-395, in steps of 5)
60 cells: JAM60S03-xxx/PR (xxx=300-330, in steps of 5)
60 cells: JAM60S08-xxx/PR (xxx=300-330, in steps of 5)
60 cells: JAM60S10-xxx/PR (xxx=315-345, in steps of 5)
60 cells: JAM60S10-xxx/MR (xxx=325-355, 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: JAM60S17-xxx/PR (xxx=315-325, in steps of 5)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

	60 cells: JAM60S17-xxx/MR (xxx=315-355, in steps of 5)
	78 cells: JAM78S10-xxx/MR (xxx=435-465, in steps of 5)
	78 cells: JAM78S10-xxx/MR-J (xxx=435-465, in steps of 5)
	66 cells: JAM66S10-xxx/MR (xxx=345-390, 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 Mono-crystalline Silicon half-cut Solar Cells (166mm to 168mm):**

	72 cells: JAM72S20-xxx/MR (xxx=430-470, in steps of 5)
	72 cells: JAM72S20-xxx/MB (xxx=450-465, in steps of 5)
	60 cells: JAM60S20-xxx/MR (xxx=355-390, in steps of 5)
	60 cells: JAM60S21-xxx/MR (xxx=355-390, in steps of 5)
	60 cells: JAM60S20-xxx/MB (xxx=375-390, 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 182mm Mono-crystalline Silicon half-cut Solar Cells:**

	78 cells: JAM78S30-xxx/MR (xxx=580-605, in steps of 5)
	72 cells: JAM72S30-xxx/MR (xxx=510-555, in steps of 5)
	66 cells: JAM66S30-xxx/MR (xxx=470-505, in steps of 5)
	60 cells: JAM60S30-xxx/MR (xxx=435-460, in steps of 5)
	54 cells: JAM54S30-xxx/MR (xxx=390-425, in steps of 5)
	78 cells: JAM78S30-xxx/GR (xxx=575-610, in steps of 5)
	72 cells: JAM72S30-xxx/GR (xxx=535-560, in steps of 5)
	66 cells: JAM66S30-xxx/GR (xxx=500-510, in steps of 5)
	60 cells: JAM60S30-xxx/GR (xxx=445-470, in steps of 5)
	54 cells: JAM54S30-xxx/GR (xxx=400-420, in steps of 5)
	72 cells: JAM72S31-xxx/MR (xxx=510-545, in steps of 5)
	66 cells: JAM66S31-xxx/MR (xxx=470-500, in steps of 5)
	60 cells: JAM60S31-xxx/MR (xxx=425-450, in steps of 5)
	54 cells: JAM54S31-xxx/MR (xxx=385-405, in steps of 5)



78 cells: JAM78S31-xxx/GR (xxx=575-590, in steps of 5)
72 cells: JAM72S31-xxx/GR (xxx=525-545, in steps of 5)
66 cells: JAM66S31-xxx/GR (xxx=480-500, in steps of 5)
60 cells: JAM60S31-xxx/GR (xxx=435-450, in steps of 5)
54 cells: JAM54S31-xxx/GR (xxx=395-415, in steps of 5)
72 cells: JAM72S40-xxx/GR (xxx=540-570, in steps of 5)
66 cells: JAM66S40-xxx/GR (xxx=495-525, in steps of 5)
60 cells: JAM60S40-xxx/GR (xxx=450-480, in steps of 5)
54 cells: JAM54S40-xxx/GR (xxx=405-430, in steps of 5)
72 cells: JAM72S41-xxx/GR (xxx=540-570, in steps of 5)
66 cells: JAM66S41-xxx/GR (xxx=495-525, in steps of 5)
60 cells: JAM60S41-xxx/GR (xxx=450-475, in steps of 5)
54 cells: JAM54S41-xxx/GR (xxx=405-430, in steps of 5)
72 cells: JAM72S30-xxx/LR (xxx=555-580, in steps of 5)
54 cells: JAM54S30-xxx/LR (xxx=415-435, in steps of 5)
54 cells: JAM54S31-xxx/LR (xxx=415-420, in steps of 5)
54 cells: JAM54S30-xxx/MB (xxx=385-410, in steps of 5)
54 cells: JAM54S31-xxx/MB (xxx=385-405, in steps of 5)
54 cells: JAM54S30-xxx/LB (xxx=410-425, in steps of 5)
54 cells: JAM54S31-xxx/LB (xxx=410-415, in steps of 5)

Maximum system voltage: 1000V or 1500V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 210mm Mono-crystalline Silicon 1/3-cut Solar Cells:**

50 cells: JAM50S40-xxx/MR (xxx=490-500, in steps of 5)
66 cells: JAM66S35-xxx/MR (xxx=650-670, in steps of 5)
60 cells: JAM60S35-xxx/MR (xxx=590-610, in steps of 5)

Maximum system voltage: 1000V or 1500V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Module types:	PV Modules with 182mm Mono-crystalline Silicon 1/5-cut Solar Cells: 68 cells: JAM68S11-xxx/PR (xxx=355-365, in steps of 5) 68 cells: JAM68S11-xxx/PR(B) (xxx=345-365, in steps of 5) 76 cells: JAM76S11-xxx/PR(B) (xxx=395-415, in steps of 5)
Maximum system voltage:	1000V or 1500V
Fuse rating:	25A
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: JAP72S01-xxx/SC (xxx=310-345, 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=325-340, in steps of 5) 60 cells: JAP60S01-xxx/SC (xxx=255-290, 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=270-280, 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 Poly-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm): 72 cells: JAP72S03-xxx/PR (xxx=335-355, in steps of 5) 72 cells: JAP72S03-xxx/SC (xxx=320-345, in steps of 5) 72 cells: JAP72S10-xxx/SC (xxx=335-350, in steps of 5) 72 cells: JAP72S03-xxx/MS (xxx=320-345, in steps of 5) 72 cells: JAP72S08-xxx/SC (xxx=320-345, in steps of 5)
---------------	---



TÜV NORD CERT GmbH
Certification Body
Consumer Products

72 cells: JAP72S08-xxx/PR (xxx=335-355, in steps of 5)
60 cells: JAP60S03-xxx/PR (xxx=280-295, in steps of 5)
60 cells: JAP60S03-xxx/SC (xxx=270-290, in steps of 5)
60 cells: JAP60S10-xxx/SC (xxx=275-290, in steps of 5)
60 cells: JAP60S03-xxx/MS (xxx=270-285, in steps of 5)
60 cells: JAP60S08-xxx/SC (xxx=270-290, in steps of 5)
60 cells: JAP60S08-xxx/PR (xxx=280-295, 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.



TÜV NORD CERT GmbH
Certification Body
Consumer Products