

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

JUST SOLAR GROUP LIMITED
No.1628 Suzhao Road, Minhang District,
Shanghai, 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: 2021-11-17
Valid until: 2024-05-09

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC / EN 61215-1:2016; IEC / EN 61215-1-1:2016; IEC 61215-2:2016 / EN 61215-2:2017 + AC:2017 + AC:2018; IEC 61730-1:2016 / EN IEC 61730-1:2018 + AC:2018; IEC 61730-2:2016 / EN IEC 61730-2:2018 + AC:2018.
Registered No.:	44 780 21 406749 - 247
Manufacturer:	see Annex 1
Test Report No.:	492011868.001
File No.:	PVP11023/21P


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Consumer Products



Essen, 2021-11-17

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 21 406749 - 247

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Aktenzeichen: / File reference: PVP11023/21P

2021-11-17

Manufacturer:

Manufacturer: Coded by debtor no. 55403167

Factory inspection report no.: 862010379.004

Remark:

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



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Description of product(s):

Module types:	PV Modules with 6" Mono-crystalline Silicon Solar Cells: 72 cells: JST-M2-M-72-***W (***=310-375, in increment of 5) 60 cells: JST-M2-M-60-***W (***=260-310, in increment of 5) 54 cells: JST-M2-M-54-***W (***=235-270, in increment of 5) 48 cells: JST-M2-M-48-***W (***=205-240, in increment of 5) 42 cells: JST-M2-M-42-***W (***=185-210, in increment of 5) 36 cells: JST-M2-M-36-***W (***=160-180, in increment of 5) 30 cells: JST-M2-M-30-***W (***=135-150, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	5400Pa (positive) / 2400Pa (negative) or 3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)
Module types:	PV Modules with 6" Mono-crystalline Silicon Solar Cells: 72 cells: JST-G1-M-72-***W (***=380-395, in increment of 5) 60 cells: JST-G1-M-60-***W (***=320-330, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)



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Module types:	PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells: 144 cells: JST-G1-M-72-H-***W (***=365-400, in increment of 5) 132 cells: JST-G1-M-66-H-***W (***=335-365, in increment of 5) 120 cells: JST-G1-M-60-H-***W (***=305-330, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A or 20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)

Module types:	PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells: 144 cells: JST-G1-M-72-MH-***W (***=390-410, in increment of 5) 132 cells: JST-G1-M-66-MH-***W (***=360-375, in increment of 5) 120 cells: JST-G1-M-60-MH-***W (***=325-340, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A or 20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)



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Module types:	PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells: 144 cells: JST-M6-M-72-MH-***W (***=420-455, in increment of 5) 132 cells: JST-M6-M-66-MH-***W (***=385-415, in increment of 5) 120 cells: JST-M6-M-60-MH-***W (***=350-380, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)

Module types:	PV Modules with 7" Half Cut Mono-crystalline Silicon Solar Cells: 156 cells: JST-M10-M-78-MH-***W (***=560-605, in increment of 5) 144 cells: JST-M10-M-72-MH-***W (***=515-555, in increment of 5) 132 cells: JST-M10-M-66-MH-***W (***=475-510, in increment of 5) 120 cells: JST-M10-M-60-MH-***W (***=430-465, in increment of 5) 108 cells: JST-M10-M-54-MH-***W (***=390-415, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	25A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)



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Module types:	PV Modules with 8" Half Cut Mono-crystalline Silicon Solar Cells: 132 cells: JST-G12-M-66-MH-***W (***=630-670, in increment of 5) 120 cells: JST-G12-M-60-MH-***W (***=575-610, in increment of 5) 108 cells: JST-G12-M-54-MH-***W (***=515-545, in increment of 5) 96 cells: JST-G12-M-48-MH-***W (***=460-485, in increment of 5) 84 cells: JST-G12-M-42-MH-***W (***=400-425, in increment of 5) 110 cells: JST-G12-M-55-MH-***W (***=520-555, in increment of 5) 100 cells: JST-G12-M-50-MH-***W (***=475-505, in increment of 5) 90 cells: JST-G12-M-45-MH-***W (***=425-455, in increment of 5) 80 cells: JST-G12-M-40-MH-***W (***=380-400, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.

**Certificate
of conformity with the following
European Directives**

Registered No.:
44 799 21 406749 - 136

Low-Voltage Directive 2014/35/EU

Date of application	File reference	Test report No.	Date of issue	Place of issue
2021-11-05	PVP11023/21P	492011868.001	2021-11-17	Essen

This is to certify that the following products comply to the essential requirements of the above mentioned European Directive and the following standards, taking into account the German national deviations:

Product: Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

Type designation: See Annex 1

Applicant: **JUST SOLAR GROUP LIMITED**
No.1628 Suzhao Road, Minhang District,
Shanghai, China

Standard(s): EN IEC 61730-1:2018; EN IEC 61730-1:2018/AC:2018-06
EN IEC 61730-2:2018; EN IEC 61730-2:2018/AC:2018-06

This Certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.


Certification Body
Specialist Manager Consumer Products

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Description of product(s):

Module types:

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

72 cells: JST-M2-M-72-***W (***=310-375, in increment of 5)

60 cells: JST-M2-M-60-***W (***=260-310, in increment of 5)

54 cells: JST-M2-M-54-***W (***=235-270, in increment of 5)

48 cells: JST-M2-M-48-***W (***=205-240, in increment of 5)

42 cells: JST-M2-M-42-***W (***=185-210, in increment of 5)

36 cells: JST-M2-M-36-***W (***=160-180, in increment of 5)

30 cells: JST-M2-M-30-***W (***=135-150, in increment of 5)

Module types:

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

72 cells: JST-G1-M-72-***W (***=380-395, in increment of 5)

60 cells: JST-G1-M-60-***W (***=320-330, in increment of 5)

Module types:

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

144 cells: JST-G1-M-72-H-***W (***=365-400, in increment of 5)

132 cells: JST-G1-M-66-H-***W (***=335-365, in increment of 5)

120 cells: JST-G1-M-60-H-***W (***=305-330, in increment of 5)

Module types:

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

144 cells: JST-G1-M-72-MH-***W (***=390-410, in increment of 5)

132 cells: JST-G1-M-66-MH-***W (***=360-375, in increment of 5)

120 cells: JST-G1-M-60-MH-***W (***=325-340, in increment of 5)

Module types:

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

144 cells: JST-M6-M-72-MH-***W (***=420-455, in increment of 5)

132 cells: JST-M6-M-66-MH-***W (***=385-415, in increment of 5)

120 cells: JST-M6-M-60-MH-***W (***=350-380, in increment of 5)



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Module types:

PV Modules with 7" Half Cut Mono-crystalline Silicon Solar Cells:

156 cells: JST-M10-M-78-MH-***W (***=560-605, in increment of 5)

144 cells: JST-M10-M-72-MH-***W (***=515-555, in increment of 5)

132 cells: JST-M10-M-66-MH-***W (***=475-510, in increment of 5)

120 cells: JST-M10-M-60-MH-***W (***=430-465, in increment of 5)

108 cells: JST-M10-M-54-MH-***W (***=390-415, in increment of 5)

Module types:

PV Modules with 8" Half Cut Mono-crystalline Silicon Solar Cells:

132 cells: JST-G12-M-66-MH-***W (***=630-670, in increment of 5)

120 cells: JST-G12-M-60-MH-***W (***=575-610, in increment of 5)

108 cells: JST-G12-M-54-MH-***W (***=515-545, in increment of 5)

96 cells: JST-G12-M-48-MH-***W (***=460-485, in increment of 5)

84 cells: JST-G12-M-42-MH-***W (***=400-425, in increment of 5)

110 cells: JST-G12-M-55-MH-***W (***=520-555, in increment of 5)

100 cells: JST-G12-M-50-MH-***W (***=475-505, in increment of 5)

90 cells: JST-G12-M-45-MH-***W (***=425-455, in increment of 5)

80 cells: JST-G12-M-40-MH-***W (***=380-400, in increment of 5)



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