

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

JUST SOLAR GROUP LIMITED
No.66 Miaojing 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: 2023-03-03

Valid until: 2026-07-26

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 23 406749 - 046
Manufacturer:	see Annex 1
Test Report No.:	492012318.001
File No.:	PVP02145/23P



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Essen, 2023-03-03

Please also pay attention to the information stated overleaf.

Description of product(s):

Module types:	Double glass PV Modules with half-cut 6" Bifacial Mono Solar Cells: 144 cells: JST-DBMH-xxxW-D (xxx = 425-475, in increment of 5) 120 cells: JST-DDMH-xxxW-D (xxx = 355-395, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa or 1600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class A according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	Double glass PV Modules with half-cut 7" Bifacial Mono Solar Cells: 144 cells: JST-EBMH-xxxW-D (xxx = 520-560, in increment of 5) 132 cells: JST-ECMH-xxxW-D (xxx = 475-510, in increment of 5) 120 cells: JST-EDMH-xxxW-D (xxx = 435-465, in increment of 5) 108 cells: JST-EFMH-xxxW-D (xxx = 390-420, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa or 1600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class A or C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:	Double glass PV Modules with half-cut 8" Bifacial Mono Solar Cells: 132 cells: JST-FCMH-xxxW-D (xxx = 635-675, in increment of 5) 120 cells: JST-FDMH-xxxW-D (xxx = 580-610, in increment of 5) 110 cells: JST-FEMH-xxxW-D (xxx = 525-560, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class A or C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	Double glass PV Modules with half-cut 6" n-type heterojunction Bifacial Mono Solar Cells: 144 cells: JST-DBMH-xxxW-HD (xxx = 450-490, in increment of 5) 132 cells: JST-DCMH-xxxW-HD (xxx = 410-450, in increment of 5) 120 cells: JST-DDMH-xxxW-HD (xxx = 375-405, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa or 1600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class A according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:	Double glass PV Modules with half-cut 8" n-type heterojunction Bifacial Mono Solar Cells: 132 cells: JST-FCMH-xxxW-HD (xxx = 625-700, in increment of 5) 120 cells: JST-FDMH-xxxW-HD (xxx = 585-635, in increment of 5) 110 cells: JST-FEMH-xxxW-HD (xxx = 540-580, in increment of 5) 100 cells: JST-FGMH-xxxW-HD (xxx = 490-530, in increment of 5) 90 cells: JST-FIMH-xxxW-HD (xxx = 440-475, in increment of 5) 80 cells: JST-FKMH-xxxW-HD (xxx = 390-425, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	35A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class A or C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	Double glass PV Modules with half-cut 7" n-type Topcon Bifacial Mono Solar Cells: 144 cells: JST-EBMH-xxxW-TD (xxx=555-580, in increment of 5) 132 cells: JST-ECMH-xxxW-TD (xxx=510-530, in increment of 5) 120 cells: JST-EDMH-xxxW-TD (xxx=465-480, in increment of 5) 108 cells: JST-EFMH-xxxW-TD (xxx=420-435, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class A according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Remark:

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



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