

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Zhejiang GangHang Solar Technology Co., Ltd
Room 503, Building 10, Xintiandi Business Center, Gongshu District,
Hangzhou, Zhejiang, 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: 2023-10-10

Valid until: 2028-04-25

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 - 343
Test Report No.:	492012746.001
File No.:	PVP09099/23P



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Essen, 2023-10-10

Please also pay attention to the information stated overleaf.

Description of product(s):

Module types:	Double glass PV Modules with half-cut 7" Bifacial Mono Solar Cells: 156 cells: MSxxxMDG-78HC (xxx = 580-615, in increment of 5) 132 cells: MSxxxMDG-66HC (xxx = 475-510, in increment of 5) Remark: xxx indicates output power from the front side only.
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)

Module types:	Double glass PV Modules with half-cut 6" n-type heterojunction Bifacial Mono Solar Cells: 144 cells: MSxxxJT-72H (xxx = 450-490, in increment of 5) 132 cells: MSxxxJT-66H (xxx = 410-450, in increment of 5) 120 cells: MSxxxJT-60H (xxx = 375-405, in increment of 5) Remark: xxx indicates output power from the front side only.
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: MSxxxJT-66H (xxx = 645-710, in increment of 5)

120 cells: MSxxxJT-60H (xxx = 585-645, in increment of 5)

110 cells: MSxxxJT-55H (xxx = 540-590, in increment of 5)

110 cells: MSxxxJT-50H (xxx = 490-535, in increment of 5)

90 cells: MSxxxJT-45H (xxx = 440-480, in increment of 5)

80 cells: MSxxxJT-40H (xxx = 390-430, in increment of 5)

Remark: xxx indicates output power from the front side only.

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:

156 cells: MSxxxMDG-78H (xxx=605-630, in increment of 5)

132 cells: MSxxxMDG-66H (xxx=510-530, in increment of 5)

108 cells: MSxxxMDG-54H (xxx=415-440, in increment of 5)

Remark: xxx indicates output power from the front side only.

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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