

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

HENGDIAN GROUP DMEGC MAGNETICS CO., LTD.
Hengdian Industrial Zone
Dongyang City, Zhejiang Province, 322118
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: 2022-08-31

Valid until: 2025-11-22

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 20 406749 - 229R8M8
Manufacturer:	see Annex 1
Test Report No.:	492011567.011
File No.:	PVP01027/22P-34



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Essen, 2022-08-31

Please also pay attention to the information stated overleaf.

Manufacturer:

Manufacturer: **HENGDIAN GROUP DMEGC MAGNETICS CO., LTD.**
Hengdian Industrial Zone
Dongyang City, Zhejiang Province, 322118, P.R. China

Factory inspection report no.: 862010401.003

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:	Double Glass PV Modules with Mono-crystalline Silicon Solar Cells (156.75mm to 166mm): 72 cells: DMGxxxM6A-72ST (xxx=380-390, in steps of 5) 72 cells: DMxxxG1-G72ST (xxx=380-390, in steps of 5) 72 cells: DMxxxG1-G72SW (xxx=380-390, in steps of 5) 72 cells: DMGxxxM6A-72BT (xxx=380-390, in steps of 5) 72 cells: DMxxxG1-G72BT (xxx=380-390, in steps of 5) 72 cells: DMxxxG1-G72BB (xxx=380-390, in steps of 5) 60 cells: DMGxxxM6A-60ST (xxx=315-325, in steps of 5) 60 cells: DMxxxG1-G60ST (xxx=315-325, in steps of 5) 60 cells: DMxxxG1-G60SW (xxx=315-325, in steps of 5) 60 cells: DMGxxxM6A-60BT (xxx=315-325, in steps of 5) 60 cells: DMxxxG1-G60BT (xxx=315-325, in steps of 5) 60 cells: DMxxxG1-G60BB (xxx=315-325, in steps 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
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 Mono-crystalline Silicon Half-cut Solar Cells (156.75mm to 166mm): 144 cells: DMGxxxM6A-144HST (xxx=385-390, in steps of 5) 144 cells: DMxxxG1-G72HST (xxx=385-390, in steps of 5) 144 cells: DMxxxG1-G72HSW (xxx=385-390, in steps of 5) 144 cells: DMGxxxM6A-144HBT (xxx=385-390, in steps of 5) 144 cells: DMxxxG1-G72HBT (xxx=385-390, in steps of 5) 144 cells: DMxxxG1-G72HBB (xxx=385-390, in steps of 5) 120 cells: DMGxxxM6A-120HST (xxx=320-325, in steps of 5) 120 cells: DMxxxG1-G60HST (xxx=320-325, in steps of 5) 120 cells: DMxxxG1-G60HSW (xxx=320-325, in steps of 5) 120 cells: DMGxxxM6A-120HBT (xxx=320-325, in steps of 5) 120 cells: DMxxxG1-G60HBT (xxx=320-325, in steps of 5)
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	120 cells: DMxxxG1-G60HBB (xxx=320-325, in steps 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
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 Mono-crystalline Silicon Bifacial Solar Cells (156.75mm to 166mm):**

72 cells: DMGxxxB6-72ST (xxx=355-375, in step of 5)
72 cells: DMGxxxB6-72BT (xxx=355-375, in step of 5)
72 cells: DMGxxxB6-72SW (xxx=355-375, in step of 5)
60 cells: DMGxxxB6-60ST (xxx=295-310, in step of 5)
60 cells: DMGxxxB6-60BT (xxx=295-310, in step of 5)
60 cells: DMGxxxB6-60SW (xxx=295-310, in step of 5)
72 cells: DMGxxxB6-72XW (xxx=355-375, in step of 5)
60 cells: DMGxxxB6-60XW (xxx=295-310, in step of 5)
72 cells: DMGxxxB6A-72ST (xxx=390-395, in steps of 5)
72 cells: DMGxxxB6A-72SW (xxx=390-395, in steps of 5)
72 cells: DMxxxG1-B72ST (xxx=390-395, in steps of 5)
72 cells: DMxxxG1-B72SW (xxx=390-395, in steps of 5)
72 cells: DMGxxxB6A-72BT (xxx=390-395, in steps of 5)
72 cells: DMxxxG1-B72BT (xxx=390-395, in steps of 5)
72 cells: DMxxxG1-B72BB (xxx=390-395, in steps of 5)
60 cells: DMGxxxB6A-60ST (xxx=325-330, in steps of 5)
60 cells: DMGxxxB6A-60SW (xxx=325-330, in steps of 5)
60 cells: DMxxxG1-B60ST (xxx=325-330, in steps of 5)
60 cells: DMxxxG1-B60SW (xxx=325-330, in steps of 5)
60 cells: DMGxxxB6A-60BT (xxx=325-330, in steps of 5)
60 cells: DMxxxG1-B60BT (xxx=325-330, in steps of 5)
60 cells: DMxxxG1-B60BB (xxx=325-330, in steps of 5)
Remark: The power parameter included in the module types only indicates maximum power output of front side.

Maximum system voltage: 1500V



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Fuse rating:	20A
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 Mono-crystalline Silicon Half-Cut Bifacial Solar Cells (156.75mm to 166mm):

144 cells: DMGxxxB6-144HST (xxx=360-370, in step of 5)
144 cells: DMGxxxB6-144HBT (xxx=360-370, in step of 5)
120 cells: DMGxxxB6-120HST (xxx=300-305, in step of 5)
120 cells: DMGxxxB6-120HBT (xxx=300-305, in step of 5)
144 cells: DMGxxxB6A-144HST (xxx=390-410, in steps of 5)
144 cells: DMxxxG1-B72HST (xxx=390-410, in steps of 5)
144 cells: DMxxxG1-B72HSW (xxx=390-410, in steps of 5)
144 cells: DMGxxxB6A-144HBT (xxx=390-410, in steps of 5)
144 cells: DMxxxG1-B72HBT (xxx=390-410, in steps of 5)
144 cells: DMxxxG1-B72HBB (xxx=390-410, in steps of 5)
144 cells: DMxxxG1-B72HBW (xxx=390-410, in steps of 5)
120 cells: DMGxxxB6A-120HST (xxx=325-340, in steps of 5)
120 cells: DMxxxG1-B60HST (xxx=325-340, in steps of 5)
120 cells: DMxxxG1-B60HSW (xxx=325-340, in steps of 5)
120 cells: DMGxxxB6A-120HBT (xxx=325-340, in steps of 5)
120 cells: DMxxxG1-B60HBT (xxx=325-340, in steps of 5)
120 cells: DMxxxG1-B60HBB (xxx=325-340, in steps of 5)
120 cells: DMxxxG1-B60HBW (xxx=325-340, in steps of 5)
144 cells: DMxxxM6-B72HSW (xxx=420-450, in step of 5)
144 cells: DMxxxM6-B72HBW (xxx=420-450, in step of 5)
144 cells: DMxxxM6-B72HBT (xxx=420-450, in step of 5)
144 cells: DMxxxM6-B72HST (xxx=420-450, in step of 5)
120 cells: DMxxxM6-B60HSW (xxx=350-375, in step of 5)
120 cells: DMxxxM6-B60HBW (xxx=350-375, in step of 5)
120 cells: DMxxxM6-B60HBT (xxx=350-375, in step of 5)
120 cells: DMxxxM6-B60HST (xxx=350-375, in step of 5)
44 cells: DMxxxM6-B22HSW (xxx=130-135, in step of 5)
44 cells: DMxxxM6-B22HBW (xxx=130-135, in step of 5)



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44 cells: DMxxxM6-B22HBT (xxx=130-135, in step of 5)
44 cells: DMxxxM6-B22HST (xxx=130-135, in step of 5)
144 cells: GHxxxM6-B72HSW (xxx=420-450, in step of 5)
144 cells: GHxxxM6-B72HST (xxx=420-450, in step of 5)
120 cells: GHxxxM6-B60HSW (xxx=350-375, in step of 5)
120 cells: GHxxxM6-B60HST (xxx=350-375, in step of 5)
Remark: The power parameter included in the module types only indicates maximum power output of front side.

Maximum system voltage: 1500V
Fuse rating: 20A or 25A
Electrical protection class: Class II
Pollution degree: 1
Material group: I
Design load (positive / negative): a) 5400Pa / 2400Pa
b) 3600Pa / 1600Pa
c) 3600Pa / 2400Pa
d) 2400Pa / 2400Pa
e) 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 182mm Mono-crystalline Silicon Half-Cut Bifacial Solar Cells:**

156 cells: DMxxxM10-B78HSW (xxx=570-600, in step of 5)
156 cells: DMxxxM10-B78HBW (xxx=570-600, in step of 5)
156 cells: DMxxxM10-B78HBT (xxx=570-600, in step of 5)
156 cells: DMxxxM10-B78HST (xxx=570-600, in step of 5)
156 cells: DMxxxM10-B78HBB (xxx=570-600, in step of 5)
144 cells: DMxxxM10-B72HSW (xxx=510-550, in step of 5)
144 cells: DMxxxM10-B72HBW (xxx=510-550, in step of 5)
144 cells: DMxxxM10-B72HBT (xxx=510-550, in step of 5)
144 cells: DMxxxM10-B72HST (xxx=510-550, in step of 5)
144 cells: DMxxxM10-B72HBB (xxx=510-550, in step of 5)
132 cells: DMxxxM10-B66HSW (xxx=475-505, in step of 5)
132 cells: DMxxxM10-B66HBW (xxx=475-505, in step of 5)
132 cells: DMxxxM10-B66HBT (xxx=475-505, in step of 5)
132 cells: DMxxxM10-B66HST (xxx=475-505, in step of 5)
132 cells: DMxxxM10-B66HBB (xxx=475-505, in step of 5)



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120 cells: DMxxxM10-B60HSW (xxx=440-455, in step of 5)

120 cells: DMxxxM10-B60HBW (xxx=440-455, in step of 5)

120 cells: DMxxxM10-B60HBT (xxx=440-455, in step of 5)

120 cells: DMxxxM10-B60HST (xxx=440-455, in step of 5)

120 cells: DMxxxM10-B60HBB (xxx=440-455, in step of 5)

108 cells: DMxxxM10-B54HSW (xxx=395-410, in step of 5)

108 cells: DMxxxM10-B54HBW (xxx=395-410, in step of 5)

108 cells: DMxxxM10-B54HBT (xxx=395-410, in step of 5)

108 cells: DMxxxM10-B54HST (xxx=395-410, in step of 5)

108 cells: DMxxxM10-B54HBB (xxx=395-410, in step of 5)

Remark: The power parameter included in the module types only indicates maximum power output of front side.

Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	a) 5400Pa / 2400Pa b) 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 210mm Mono-crystalline Silicon Half-Cut Bifacial Solar Cells:**

132 cells: DMxxxG12-B66HSW (xxx=630-655, in step of 5)

132 cells: DMxxxG12-B66HBW (xxx=630-655, in step of 5)

132 cells: DMxxxG12-B66HBT (xxx=630-655, in step of 5)

132 cells: DMxxxG12-B66HST (xxx=630-655, in step of 5)

132 cells: DMxxxG12-B66HBB (xxx=630-655, in step of 5)

120 cells: DMxxxG12-B60HSW (xxx=575-595, in step of 5)

120 cells: DMxxxG12-B60HBW (xxx=575-595, in step of 5)

120 cells: DMxxxG12-B60HBT (xxx=575-595, in step of 5)

120 cells: DMxxxG12-B60HST (xxx=575-595, in step of 5)

120 cells: DMxxxG12-B60HBB (xxx=575-595, in step of 5)

Remark: The power parameter included in the module types only indicates maximum power output of front side.

Maximum system voltage:	1500V
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Fuse rating:	25A
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)

Remark: For detailed information on classification of Fire Safety and Design load (positive / negative) for different combination of raw materials, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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