CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

DAH Solar Co., Ltd.
No.1, Yaoyuan Road, Luyang District,
Hefei City, Anhui,
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: 2024-05-24
Valid until: 2028-08-13

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	P12.4-AA-04 Rev. 00 (IEC 60068-2-68:1994 modified)
Remark:	Test Method Lc1; Dust concentration: 5±0.5g/m^3; Wind velocity: 20±2m/s; Test duration: 4 hours each side.
Registered No.:	44 780 23 406749 - 263R1M1
Manufacturer and factory(-ies):	See Annex 1
Test Report No.:	492012529.002
File No.:	PVP01037/24P-03

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Essen, 2024-05-24

Please also pay attention to the information stated overleaf.

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Manufacturer and factory(-ies):

Manufacturer:	**DAH Solar Co., Ltd.** No.1, Yaoyuan Road, Luyang District, Hefei City, Anhui, P.R. China
Factory 1:	**DAH Solar Co., Ltd.** No.1, Yaoyuan Road, Luyang District, Hefei City, Anhui, P.R. China
Factory inspection report no.:	862010588.002
Factory 2:	**DAH Solar Energy Co., Ltd.** No. 8 Qianchuan Road, Bantang Sub-district Office, Chaohu Economic Development Zone, Anhui Province, P.R. China
Factory inspection report no.:	862010773.001

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 182 x 91 mm PERC Bifacial Mono Solar Cells:

144 cells: DHM-72X10/DG-xxxW (xxx = 530 - 555, in increment of 5)
144 cells: DHM-72X10/DG(BW)-xxxW (xxx = 530 - 555, in increment of 5)
144 cells: DHM-72X10/DG(BB)-xxxW (xxx = 530 - 555, in increment of 5)
144 cells: DHM-72X10/DG/FS-xxxW (xxx = 530 - 555, in increment of 5)
144 cells: DHM-72X10/DG/FS(BW)-xxxW (xxx = 530 - 555, in increment of 5)
144 cells: DHM-72X10/DG/FS(BB)-xxxW (xxx = 530 - 555, in increment of 5)
132 cells: DHM-66X10/DG-xxxW (xxx = 485 - 505, in increment of 5)
132 cells: DHM-66X10/DG(BW)-xxxW (xxx = 485 - 505, in increment of 5)
132 cells: DHM-66X10/DG(BB)-xxxW (xxx = 485 - 505, in increment of 5)
132 cells: DHM-66X10/DG/FS-xxxW (xxx = 485 - 505, in increment of 5)
132 cells: DHM-66X10/DG/FS(BW)-xxxW (xxx = 485 - 505, in increment of 5)
132 cells: DHM-66X10/DG/FS(BB)-xxxW (xxx = 485 - 505, in increment of 5)
120 cells: DHM-60X10/DG-xxxW (xxx = 440 - 460, in increment of 5)
120 cells: DHM-60X10/DG(BW)-xxxW (xxx = 440 - 460, in increment of 5)
120 cells: DHM-60X10/DG(BB)-xxxW (xxx = 440 - 460, in increment of 5)
120 cells: DHM-60X10/DG/FS-xxxW (xxx = 440 - 460, in increment of 5)
120 cells: DHM-60X10/DG/FS(BW)-xxxW (xxx = 440 - 460, in increment of 5)
120 cells: DHM-60X10/DG/FS(BB)-xxxW (xxx = 440 - 460, in increment of 5)
108 cells: DHM-54X10/DG-xxxW (xxx = 400 - 415, in increment of 5)
108 cells: DHM-54X10/DG(BW)-xxxW (xxx = 400 - 415, in increment of 5)
108 cells: DHM-54X10/DG(BB)-xxxW (xxx = 400 - 415, in increment of 5)
108 cells: DHM-54X10/DG/FS-xxxW (xxx = 400 - 415, in increment of 5)
108 cells: DHM-54X10/DG/FS(BW)-xxxW (xxx = 400 - 415, in increment of 5)
108 cells: DHM-54X10/DG/FS(BB)-xxxW (xxx = 400 - 415, in increment of 5)

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

Maximum system voltage: 1500V

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Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II

Module types:

Double Glass PV Modules with 182 x 91 / 91.875 mm TOPCon Bifacial Mono Solar Cells:

156 cells: DHN-78X16/DG-xxxW (xxx = 610 - 635, in increment of 5)

156 cells: DHN-78X16/DG(BW)-xxxW (xxx = 610 - 635, in increment of 5)

156 cells: DHN-78X16/DG(BB)-xxxW (xxx = 610 - 635, in increment of 5)

156 cells: DHN-78X16/DG/FS -xxxW (xxx = 610 - 635, in increment of 5)

156 cells: DHN-78X16/DG/FS(BW)-xxxW (xxx = 610 - 635, in increment of 5)

156 cells: DHN-78X16/DG/FS(BB)-xxxW (xxx = 610 - 635, in increment of 5)

144 cells: DHN-72X16/DG-xxxW (xxx = 560 - 595, in increment of 5)

144 cells: DHN-72X16/DG(BW)-xxxW (xxx = 560 - 595, in increment of 5)

144 cells: DHN-72X16/DG(BB)-xxxW (xxx = 560 - 595, in increment of 5)

144 cells: DHN-72X16/DG/FS-xxxW (xxx = 560 - 595, in increment of 5)

144 cells: DHN-72X16/DG/FS(BW)-xxxW (xxx = 560 - 595, in increment of 5)

144 cells: DHN-72X16/DG/FS(BB)-xxxW (xxx = 560 - 595, in increment of 5)

132 cells: DHN-66X16/DG-xxxW (xxx = 515 - 545, in increment of 5)

132 cells: DHN-66X16/DG(BW)-xxxW (xxx = 515 - 545, in increment of 5)

132 cells: DHN-66X16/DG(BB)-xxxW (xxx = 515 - 545, in increment of 5)

132 cells: DHN-66X16/DG/FS-xxxW (xxx = 515 - 545, in increment of 5)

132 cells: DHN-66X16/DG/FS(BW)-xxxW (xxx = 515 - 545, in increment of 5)

132 cells: DHN-66X16/DG/FS(BB)-xxxW (xxx = 515 - 545, in increment of 5)

120 cells: DHN-60X16/DG-xxxW (xxx = 465 - 495, in increment of 5)

120 cells: DHN-60X16/DG(BW)-xxxW (xxx = 465 - 495, in increment of 5)

120 cells: DHN-60X16/DG(BB)-xxxW (xxx = 465 - 495, in increment of 5)

120 cells: DHN-60X16/DG/FS-xxxW (xxx = 465 - 495, in increment of 5)

120 cells: DHN-60X16/DG/FS(BW)-xxxW (xxx = 465 - 495, in increment of 5)

120 cells: DHN-60X16/DG/FS(BB)-xxxW (xxx = 465 - 495, in increment of 5)

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	108 cells: DHN-54X16/DG-xxxW (xxx = 420 - 445, in increment of 5) 108 cells: DHN-54X16/DG(BW)-xxxW (xxx = 420 - 445, in increment of 5) 108 cells: DHN-54X16/DG(BB)-xxxW (xxx = 420 - 445, in increment of 5) 108 cells: DHN-54X16/DG/FS-xxxW (xxx = 420 - 445, in increment of 5) 108 cells: DHN-54X16/DG/FS(BW)-xxxW (xxx = 420 - 445, in increment of 5) 108 cells: DHN-54X16/DG/FS(BB)-xxxW (xxx = 420 - 445, in increment of 5) Remark: xxx indicates output power from the front side only.
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II
Module types:	**Double Glass PV Modules with 182 x 95.8 mm TOPCon Bifacial Mono Solar Cells:** 144 cells: DHN-72R18/DG-xxxW (xxx = 595 - 625, in increment of 5) 144 cells: DHN-72R18/DG(BW)-xxxW (xxx = 595 - 625, in increment of 5) 144 cells: DHN-72R18/DG(BB)-xxxW (xxx = 595 - 625, in increment of 5) 144 cells: DHN-72R18/DG/FS-xxxW (xxx = 595 - 625, in increment of 5) 144 cells: DHN-72R18/DG/FS(BW)-xxxW (xxx = 595 - 625, in increment of 5) 144 cells: DHN-72R18/DG/FS(BB)-xxxW (xxx = 595 - 625, in increment of 5) 144 cells: DHN-72R20/DG-xxxW (xxx = 595 - 625, in increment of 5) 144 cells: DHN-72R20/DG(BW)-xxxW (xxx = 595 - 625, in increment of 5) 144 cells: DHN-72R20/DG(BB)-xxxW (xxx = 595 - 625, in increment of 5) 144 cells: DHN-72R20/DG/FS-xxxW (xxx = 595 - 625, in increment of 5) 144 cells: DHN-72R20/DG/FS(BW)-xxxW (xxx = 595 - 625, in increment of 5) 144 cells: DHN-72R20/DG/FS(BB)-xxxW (xxx = 595 - 625, in increment of 5) 132 cells: DHN-66R18/DG-xxxW (xxx = 545 - 570, in increment of 5) 132 cells: DHN-66R18/DG(BW)-xxxW (xxx = 545 - 570, in increment of 5) 132 cells: DHN-66R18/DG (BB)-xxxW (xxx = 545 - 570, in increment of 5) 132 cells: DHN-66R18/DG/FS-xxxW (xxx = 545 - 570, in increment of 5)

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132 cells: DHN-66R18/DG/FS(BW)-xxxW (xxx = 545 - 570, in increment of 5)

132 cells: DHN-66R18/DG/FS(BB)-xxxW (xxx = 545 - 570, in increment of 5)

132 cells: DHN-66R20/DG-xxxW (xxx = 545 - 570, in increment of 5)

132 cells: DHN-66R20/DG(BW)-xxxW (xxx = 545 - 570, in increment of 5)

132 cells: DHN-66R20/DG (BB)-xxxW (xxx = 545 - 570, in increment of 5)

132 cells: DHN-66R20/DG/FS-xxxW (xxx = 545 - 570, in increment of 5)

132 cells: DHN-66R20/DG/FS(BW)-xxxW (xxx = 545 - 570, in increment of 5)

132 cells: DHN-66R20/DG/FS(BB)-xxxW (xxx = 545 - 570, in increment of 5)

120 cells: DHN-60R18/DG-xxxW (xxx = 495 - 520, in increment of 5)

120 cells: DHN-60R18/DG(BW)-xxxW (xxx = 495 - 520, in increment of 5)

120 cells: DHN-60R18/DG (BB)-xxxW (xxx = 495 - 520, in increment of 5)

120 cells: DHN-60R18/DG/FS-xxxW (xxx = 495 - 520, in increment of 5)

120 cells: DHN-60R18/DG/FS(BW)-xxxW (xxx = 495 - 520, in increment of 5)

120 cells: DHN-60R18/DG/FS(BB)-xxxW (xxx = 495 - 520, in increment of 5)

120 cells: DHN-60R20/DG-xxxW (xxx = 495 - 520, in increment of 5)

120 cells: DHN-60R20/DG(BW)-xxxW (xxx = 495 - 520, in increment of 5)

120 cells: DHN-60R20/DG (BB)-xxxW (xxx = 495 - 520, in increment of 5)

120 cells: DHN-60R20/DG/FS-xxxW (xxx = 495 - 520, in increment of 5)

120 cells: DHN-60R20/DG/FS(BW)-xxxW (xxx = 495 - 520, in increment of 5)

120 cells: DHN-60R20/DG/FS(BB)-xxxW (xxx = 495 - 520, in increment of 5)

108 cells: DHN-54R18/DG-xxxW (xxx = 445 - 465, in increment of 5)

108 cells: DHN-54R18/DG(BW)-xxxW (xxx = 445 - 465, in increment of 5)

108 cells: DHN-54R18/DG (BB)-xxxW (xxx = 445 - 465, in increment of 5)

108 cells: DHN-54R18/DG/FS-xxxW (xxx = 445 - 465, in increment of 5)

108 cells: DHN-54R18/DG/FS(BW)-xxxW (xxx = 445 - 465, in increment of 5)

108 cells: DHN-54R18/DG/FS(BB)-xxxW (xxx = 445 - 465, in increment of 5)

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	108 cells: DHN-54R20/DG-xxxW (xxx = 445 - 465, in increment of 5) 108 cells: DHN-54R20/DG(BW)-xxxW (xxx = 445 - 465, in increment of 5) 108 cells: DHN-54R20/DG (BB)-xxxW (xxx = 445 - 465, in increment of 5) 108 cells: DHN-54R20/DG/FS-xxxW (xxx = 445 - 465, in increment of 5) 108 cells: DHN-54R20/DG/FS(BW)-xxxW (xxx = 445 - 465, in increment of 5) 108 cells: DHN-54R20/DG/FS(BB)-xxxW (xxx = 445 - 465, in increment of 5) Remark: xxx indicates output power from the front side only.
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II
Module types:	**Double Glass PV Modules with 182 x 84.6 mm TOPCon Bifacial Mono Solar Cells:** 156 cells: DHN-78S16/DG-xxxW (xxx = 565 - 595, in increment of 5) 156 cells: DHN-78S16/DG(BW)-xxxW (xxx = 565 - 595, in increment of 5) 156 cells: DHN-78S16/DG (BB)-xxxW (xxx = 565 - 595, in increment of 5) 156 cells: DHN-78S16/DG/FS-xxxW (xxx = 565 - 595, in increment of 5) 156 cells: DHN-78S16/DG/FS(BW)-xxxW (xxx = 565 - 595, in increment of 5) 156 cells: DHN-78S16/DG/FS(BB)-xxxW (xxx = 565 - 595, in increment of 5) Remark: xxx indicates output power from the front side only.
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II
Module types:	**Double Glass PV Modules with 182 x 94 mm TOPCon Bifacial Mono Solar Cells:** 144 cells: DHN-72K16/DG-xxxW (xxx = 585 - 615, in increment of 5) 144 cells: DHN-72K16/DG(BW)-xxxW (xxx = 585 - 615, in increment of 5) 144 cells: DHN-72K16/DG(BB)-xxxW (xxx = 585 - 615, in increment of 5)

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144 cells: DHN-72K16/DG/FS-xxxW (xxx = 585 - 615, in increment of 5)
144 cells: DHN-72K16/DG/FS(BW)-xxxW (xxx = 585 - 615, in increment of 5)
144 cells: DHN-72K16/DG/FS(BB)-xxxW (xxx = 585 - 615, in increment of 5)
132 cells: DHN-66K16/DG-xxxW (xxx = 535 - 560, in increment of 5)
132 cells: DHN-66K16/DG(BW)-xxxW (xxx = 535 - 560, in increment of 5)
132 cells: DHN-66K16/DG (BB)-xxxW (xxx = 535 - 560, in increment of 5)
132 cells: DHN-66K16/DG/FS-xxxW (xxx = 535 - 560, in increment of 5)
132 cells: DHN-66K16/DG/FS(BW)-xxxW (xxx = 535 - 560, in increment of 5)
132 cells: DHN-66K16/DG/FS(BB)-xxxW (xxx = 535 - 560, in increment of 5)
120 cells: DHN-60K16/DG-xxxW (xxx = 490 - 510, in increment of 5)
120 cells: DHN-60K16/DG(BW)-xxxW (xxx = 490 - 510, in increment of 5)
120 cells: DHN-60K16/DG (BB)-xxxW (xxx = 490 - 510, in increment of 5)
120 cells: DHN-60K16/DG/FS-xxxW (xxx = 490 - 510, in increment of 5)
120 cells: DHN-60K16/DG/FS(BW)-xxxW (xxx = 490 - 510, in increment of 5)
120 cells: DHN-60K16/DG/FS(BB)-xxxW (xxx = 490 - 510, in increment of 5)
108 cells: DHN-54K16/DG-xxxW (xxx = 440 - 460, in increment of 5)
108 cells: DHN-54K16/DG(BW)-xxxW (xxx = 440 - 460, in increment of 5)
108 cells: DHN-54K16/DG (BB)-xxxW (xxx = 440 - 460, in increment of 5)
108 cells: DHN-54K16/DG/FS-xxxW (xxx = 440 - 460, in increment of 5)
108 cells: DHN-54K16/DG/FS(BW)-xxxW (xxx = 440 - 460, in increment of 5)
108 cells: DHN-54K16/DG/FS(BB)-xxxW (xxx = 440 - 460, in increment of 5)

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

Maximum system voltage:	1500V
Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II

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Module types:	**Double Glass PV Modules with 182 x 105 mm TOPCon Bifacial Mono Solar Cells:** 132 cells: DHN-66Z16/DG-xxxW (xxx = 585 - 625, in increment of 5) 132 cells: DHN-66Z16/DG(BW)-xxxW (xxx = 585 - 625, in increment of 5) 132 cells: DHN-66Z16/DG (BB)-xxxW (xxx = 585 - 625, in increment of 5) 132 cells: DHN-66Z16/DG/FS-xxxW (xxx = 585 - 625, in increment of 5) 132 cells: DHN-66Z16/DG/FS(BW)-xxxW (xxx = 585 - 625, in increment of 5) 132 cells: DHN-66Z16/DG/FS(BB)-xxxW (xxx = 585 - 625, in increment of 5) 120cells: DHN-60Z16/DG-xxxW (xxx = 530 - 565, in increment of 5) 120 cells: DHN-60Z16/DG(BW)-xxxW (xxx = 530 - 565, in increment of 5) 120 cells: DHN-60Z16/DG (BB)-xxxW (xxx = 530 - 565, in increment of 5) 120 cells: DHN-60Z16/DG/FS-xxxW (xxx = 530 - 565, in increment of 5) 120 cells: DHN-60Z16/DG/FS(BW)-xxxW (xxx = 530 - 565, in increment of 5) 120 cells: DHN-60Z16/DG/FS(BB)-xxxW (xxx = 530 - 565, in increment of 5) 108 cells: DHN-54Z16/DG-xxxW (xxx = 480 - 510, in increment of 5) 108 cells: DHN-54Z16/DG(BW)-xxxW (xxx = 480 - 510, in increment of 5) 108 cells: DHN-54Z16/DG (BB)-xxxW (xxx = 480 - 510, in increment of 5) 108 cells: DHN-54Z16/DG/FS-xxxW (xxx = 480 - 510, in increment of 5) 108 cells: DHN-54Z16/DG/FS(BW)-xxxW (xxx = 480 - 510, in increment of 5) 108 cells: DHN-54Z16/DG/FS(BB)-xxxW (xxx = 480 - 510, in increment of 5) 96 cells: DHN-48Z16/DG-xxxW (xxx = 425 - 455, in increment of 5) 96 cells: DHN-48Z16/DG(BW)-xxxW (xxx = 425 - 455, in increment of 5) 96 cells: DHN-48Z16/DG (BB)-xxxW (xxx = 425 - 455, in increment of 5) 96 cells: DHN-48Z16/DG/FS-xxxW (xxx = 425 - 455, in increment of 5) 96 cells: DHN-48Z16/DG/FS(BW)-xxxW (xxx = 425 - 455, in increment of 5) 96 cells: DHN-48Z16/DG/FS(BB)-xxxW (xxx = 425 - 455, in increment of 5) Remark: xxx indicates output power from the front side only.
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II

Remark:

For detailed product information, please refer to CDF (Constructional Data Form).

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