

# CERTIFICATE

**TÜV NORD CERT GmbH**

herewith declares that

**Anhui Daheng Energy Technology Co., Ltd.**

No.01, Yaoyuan Road, Luyang District,

Hefei City, Anhui Province,

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: 2022-10-10

Valid until: 2024-06-13

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 19 406749 - 367R7A1M7
Manufacturer:	see Annex 1
Test Report No.:	492011236.012
File No.:	PVP09128/22P-01



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Essen, 2022-10-10

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 19 406749 - 367R7A1M7

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Aktenzeichen: / File reference: PVP09128/22P-01

2022-10-10

**Manufacturer:**

Manufacturer: **Anhui Daheng Energy Technology Co., Ltd.**  
No.01, Yaoyuan Road, Luyang District,  
Hefei City, Anhui Province, P.R. China

Factory inspection report no.: 862010588.001

**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:	<b>PV Modules with Mono-crystalline Silicon Solar Cells (156.75mm to 166mm):</b> 72 cells: DHM72-xxxW (xxx = 325 - 370, in increment of 5) 72 cells: DHM72/FS-xxxW (xxx = 325 - 370, in increment of 5) 60 cells: DHM60-xxxW (xxx = 275 - 310, in increment of 5) 60 cells: DHM60/FS-xxxW (xxx = 275 - 310, in increment of 5) 72 cells: DHM72X-xxxW (xxx= 370 - 390, in increment of 5) 72 cells: DHM72X/FS-xxxW (xxx= 370 - 390, in increment of 5) 60 cells: DHM60X-xxxW (xxx= 310 - 325, in increment of 5) 60 cells: DHM60X/FS-xxxW (xxx= 310 - 325, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	16A
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 C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	<b>PV Modules with Mono-crystalline Silicon Half-cut Solar Cells (156.75mm to 166mm):</b> 144 cells: HCM72-xxxW (xxx = 350 - 390, in increment of 5) 144 cells: HCM72/FS-xxxW (xxx = 350 - 390, in increment of 5) 120 cells: HCM60-xxxW (xxx = 290 - 325, in increment of 5) 120 cells: HCM60/FS-xxxW (xxx = 290 - 325, in increment of 5) 156 cells: HCM78X9-xxxW (xxx = 415 - 455, in increment of 5) 156 cells: HCM78X9/FS-xxxW (xxx = 415 - 455, in increment of 5) 144 cells: HCM72X9-xxxW (xxx = 385 - 420, in increment of 5) 144 cells: HCM72X9/FS-xxxW (xxx = 385 - 420, in increment of 5) 120 cells: HCM60X9-xxxW (xxx = 320 - 350, in increment of 5) 120 cells: HCM60X9/FS-xxxW (xxx = 320 - 350, in increment of 5) 144 cells: DHM-72L9-xxxW (xxx = 430 - 465, in increment of 5) 144 cells: DHM-72L9(BW)-xxxW (xxx = 430 - 465, in increment of 5) 144 cells: DHM-72L9(BB)-xxxW (xxx = 430 - 465, in increment of 5) 144 cells: DHM-72L9/FS-xxxW (xxx = 430 - 465, in increment of 5) 144 cells: DHM-72L9/FS(BW)-xxxW (xxx = 430 - 465, in increment of 5)
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144 cells: DHM-72L9/FS(BB)-xxxW (xxx = 430 - 465, in increment of 5)  
144 cells: DHM-72L9/BF-xxxW (xxx = 430 - 465, in increment of 5)  
144 cells: DHM-72L9/BF(BW)-xxxW (xxx = 430 - 465, in increment of 5)  
144 cells: DHM-72L9/BF(BB)-xxxW (xxx = 430 - 465, in increment of 5)  
144 cells: DHM-72L9/BF/FS -xxxW (xxx = 430 - 465, in increment of 5)  
144 cells: DHM-72L9/BF/FS(BW)-xxxW (xxx = 430 - 465, in increment of 5)  
144 cells: DHM-72L9/BF/FS(BB)-xxxW (xxx = 430 - 465, in increment of 5)  
132 cells: DHM-66L9-xxxW (xxx = 395 - 425, in increment of 5)  
132 cells: DHM-66L9(BW)-xxxW (xxx = 395 - 425, in increment of 5)  
132 cells: DHM-66L9(BB)-xxxW (xxx = 395 - 425, in increment of 5)  
132 cells: DHM-66L9/FS-xxxW (xxx = 395 - 425, in increment of 5)  
132 cells: DHM-66L9/FS(BW)-xxxW (xxx = 395 - 425, in increment of 5)  
132 cells: DHM-66L9/FS(BB)-xxxW (xxx = 395 - 425, in increment of 5)  
132 cells: DHM-66L9/BF-xxxW (xxx = 395 - 425, in increment of 5)  
132 cells: DHM-66L9/BF(BW)-xxxW (xxx = 395 - 425, in increment of 5)  
132 cells: DHM-66L9/BF(BB)-xxxW (xxx = 395 - 425, in increment of 5)  
132 cells: DHM-66L9/BF/FS -xxxW (xxx = 395 - 425, in increment of 5)  
132 cells: DHM-66L9/BF/FS(BW)-xxxW (xxx = 395 - 425, in increment of 5)  
132 cells: DHM-66L9/BF/FS(BB)-xxxW (xxx = 395 - 425, in increment of 5)  
120 cells: DHM-60L9-xxxW (xxx = 360 - 385, in increment of 5)  
120 cells: DHM-60L9(BW)-xxxW (xxx = 360 - 385, in increment of 5)  
120 cells: DHM-60L9(BB)-xxxW (xxx = 360 - 385, in increment of 5)  
120 cells: DHM-60L9/FS-xxxW (xxx = 360 - 385, in increment of 5)  
120 cells: DHM-60L9/FS(BW)-xxxW (xxx = 360 - 385, in increment of 5)  
120 cells: DHM-60L9/FS(BB)-xxxW (xxx = 360 - 385, in increment of 5)  
120 cells: DHM-60L9/BF-xxxW (xxx = 360 - 385, in increment of 5)  
120 cells: DHM-60L9/BF(BW)-xxxW (xxx = 360 - 385, in increment of 5)  
120 cells: DHM-60L9/BF(BB)-xxxW (xxx = 360 - 385, in increment of 5)  
120 cells: DHM-60L9/BF/FS -xxxW (xxx = 360 - 385, in increment of 5)  
120 cells: DHM-60L9/BF/FS(BW)-xxxW (xxx = 360 - 385, in increment of 5)  
120 cells: DHM-60L9/BF/FS(BB)-xxxW (xxx = 360 - 385, in increment of 5)

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 C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

## Module types:

**PV Modules with 182mm Mono-crystalline Silicon Half-cut Solar Cells:**

- 156 cells: DHM-78X10-xxxW (xxx = 570 - 590, in increment of 5)
- 156 cells: DHM-78X10(BW)-xxxW (xxx = 570 - 590, in increment of 5)
- 156 cells: DHM-78X10(BB)-xxxW (xxx = 570 - 590, in increment of 5)
- 156 cells: DHM-78X10/FS-xxxW (xxx = 570 - 590, in increment of 5)
- 156 cells: DHM-78X10/FS(BW)-xxxW (xxx = 570 - 590, in increment of 5)
- 156 cells: DHM-78X10/FS(BB)-xxxW (xxx = 570 - 590, in increment of 5)
- 156 cells: DHM-78X10/BF-xxxW (xxx = 570 - 590, in increment of 5)
- 156 cells: DHM-78X10/BF(BW)-xxxW (xxx = 570 - 590, in increment of 5)
- 156 cells: DHM-78X10/BF(BB)-xxxW (xxx = 570 - 590, in increment of 5)
- 156 cells: DHM-78X10/BF/FS-xxxW (xxx = 570 - 590, in increment of 5)
- 156 cells: DHM-78X10/BF/FS(BW)-xxxW (xxx = 570 - 590, in increment of 5)
- 156 cells: DHM-78X10/BF/FS(BB)-xxxW (xxx = 570 - 590, in increment of 5)
- 144 cells: DHM-72X10-xxxW (xxx = 525 - 555, in increment of 5)
- 144 cells: DHM-72X10(BW)-xxxW (xxx = 525 - 555, in increment of 5)
- 144 cells: DHM-72X10(BB)-xxxW (xxx = 525 - 555, in increment of 5)
- 144 cells: DHM-72X10/FS-xxxW (xxx = 525 - 555, in increment of 5)
- 144 cells: DHM-72X10/FS(BW)-xxxW (xxx = 525 - 555, in increment of 5)
- 144 cells: DHM-72X10/FS(BB)-xxxW (xxx = 525 - 555, in increment of 5)
- 144 cells: DHM-72X10/BF-xxxW (xxx = 525 - 555, in increment of 5)
- 144 cells: DHM-72X10/BF(BW)-xxxW (xxx = 525 - 555, in increment of 5)
- 144 cells: DHM-72X10/BF(BB)-xxxW (xxx = 525 - 555, in increment of 5)
- 144 cells: DHM-72X10/BF/FS-xxxW (xxx = 525 - 555, in increment of 5)
- 144 cells: DHM-72X10/BF/FS(BW)-xxxW (xxx = 525 - 555, in increment of 5)
- 144 cells: DHM-72X10/BF/FS(BB)-xxxW (xxx = 525 - 555, in increment of 5)
- 132 cells: DHM-66X10-xxxW (xxx = 485 - 505, in increment of 5)



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132 cells: DHM-66X10(BW)-xxxW (xxx = 485 - 505, in increment of 5)  
132 cells: DHM-66X10(BB)-xxxW (xxx = 485 - 505, in increment of 5)  
132 cells: DHM-66X10(FS)-xxxW (xxx = 485 - 505, in increment of 5)  
132 cells: DHM-66X10(FS(BW))-xxxW (xxx = 485 - 505, in increment of 5)  
132 cells: DHM-66X10(FS(BB))-xxxW (xxx = 485 - 505, in increment of 5)  
132 cells: DHM-66X10(BF)-xxxW (xxx = 485 - 505, in increment of 5)  
132 cells: DHM-66X10(BF(BW))-xxxW (xxx = 485 - 505, in increment of 5)  
132 cells: DHM-66X10(BF(BB))-xxxW (xxx = 485 - 505, in increment of 5)  
132 cells: DHM-66X10(BF/FS)-xxxW (xxx = 485 - 505, in increment of 5)  
132 cells: DHM-66X10(BF/FS(BW))-xxxW (xxx = 485 - 505, in increment of 5)  
132 cells: DHM-66X10(BF/FS(BB))-xxxW (xxx = 485 - 505, in increment of 5)  
120 cells: DHM-60X10-xxxW (xxx = 440 - 460, in increment of 5)  
120 cells: DHM-60X10(BW)-xxxW (xxx = 440 - 460, in increment of 5)  
120 cells: DHM-60X10(BB)-xxxW (xxx = 440 - 460, in increment of 5)  
120 cells: DHM-60X10(FS)-xxxW (xxx = 440 - 460, in increment of 5)  
120 cells: DHM-60X10(FS(BW))-xxxW (xxx = 440 - 460, in increment of 5)  
120 cells: DHM-60X10(FS(BB))-xxxW (xxx = 440 - 460, in increment of 5)  
120 cells: DHM-60X10(BF)-xxxW (xxx = 440 - 460, in increment of 5)  
120 cells: DHM-60X10(BF(BW))-xxxW (xxx = 440 - 460, in increment of 5)  
120 cells: DHM-60X10(BF(BB))-xxxW (xxx = 440 - 460, in increment of 5)  
120 cells: DHM-60X10(BF/FS)-xxxW (xxx = 440 - 460, in increment of 5)  
120 cells: DHM-60X10(BF/FS(BW))-xxxW (xxx = 440 - 460, in increment of 5)  
120 cells: DHM-60X10(BF/FS(BB))-xxxW (xxx = 440 - 460, in increment of 5)  
108 cells: DHM-54X10-xxxW (xxx = 395 - 415, in increment of 5)  
108 cells: DHM-54X10(BW)-xxxW (xxx = 395 - 415, in increment of 5)  
108 cells: DHM-54X10(BB)-xxxW (xxx = 395 - 415, in increment of 5)  
108 cells: DHM-54X10(FS)-xxxW (xxx = 395 - 415, in increment of 5)  
108 cells: DHM-54X10(FS(BW))-xxxW (xxx = 395 - 415, in increment of 5)  
108 cells: DHM-54X10(FS(BB))-xxxW (xxx = 395 - 415, in increment of 5)  
108 cells: DHM-54X10(BF)-xxxW (xxx = 395 - 415, in increment of 5)  
108 cells: DHM-54X10(BF(BW))-xxxW (xxx = 395 - 415, in increment of 5)  
108 cells: DHM-54X10(BF(BB))-xxxW (xxx = 395 - 415, in increment of 5)  
108 cells: DHM-54X10(BF/FS)-xxxW (xxx = 395 - 415, in increment of 5)  
108 cells: DHM-54X10(BF/FS(BW))-xxxW (xxx = 395 - 415, in increment of 5)  
108 cells: DHM-54X10(BF/FS(BB))-xxxW (xxx = 395 - 415, in increment of 5)



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Maximum system voltage:	1500V
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 C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

## Module types:

**PV Modules with 182mm Mono-crystalline Silicon 1/3-cut Solar Cells:**

- 216 cells: DHT-M72X10-xxxW (xxx = 525 - 555, in increment of 5)
- 216 cells: DHM-T72X10-xxxW (xxx = 525 - 555, in increment of 5)
- 216 cells: DHM-T72X10(BW)-xxxW (xxx = 525 - 555, in increment of 5)
- 216 cells: DHM-T72X10(BB)-xxxW (xxx = 525 - 555, in increment of 5)
- 216 cells: DHM-T72X10/FS-xxxW (xxx = 525 - 555, in increment of 5)
- 216 cells: DHM-T72X10/FS(BW)-xxxW (xxx = 525 - 555, in increment of 5)
- 216 cells: DHM-T72X10/FS(BB)-xxxW (xxx = 525 - 555, in increment of 5)
- 216 cells: DHM-T72X10/BF-xxxW (xxx = 525 - 555, in increment of 5)
- 216 cells: DHM-T72X10/BF(BW)-xxxW (xxx = 525 - 555, in increment of 5)
- 216 cells: DHM-T72X10/BF(BB)-xxxW (xxx = 525 - 555, in increment of 5)
- 216 cells: DHM-T72X10/BF/FS-xxxW (xxx = 525 - 555, in increment of 5)
- 216 cells: DHM-T72X10/BF/FS(BW)-xxxW (xxx = 525 - 555, in increment of 5)
- 216 cells: DHM-T72X10/BF/FS(BB)-xxxW (xxx = 525 - 555, in increment of 5)
- 180 cells: DHT-M60X10-xxxW (xxx = 440 - 460, in increment of 5)
- 180 cells: DHM-T60X10-xxxW (xxx = 440 - 460, in increment of 5)
- 180 cells: DHM-T60X10(BW)-xxxW (xxx = 440 - 460, in increment of 5)
- 180 cells: DHM-T60X10(BB)-xxxW (xxx = 440 - 460, in increment of 5)
- 180 cells: DHM-T60X10/FS-xxxW (xxx = 440 - 460, in increment of 5)
- 180 cells: DHM-T60X10/FS(BW)-xxxW (xxx = 440 - 460, in increment of 5)



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180 cells: DHM-T60X10/FS(BB)-xxxW (xxx = 440 - 460, in increment of 5)  
180 cells: DHM-T60X10/BF-xxxW (xxx = 440 - 460, in increment of 5)  
180 cells: DHM-T60X10/BF(BW)-xxxW (xxx = 440 - 460, in increment of 5)  
180 cells: DHM-T60X10/BF(BB)-xxxW (xxx = 440 - 460, in increment of 5)  
180 cells: DHM-T60X10/BF/FS -xxxW (xxx = 440 - 460, in increment of 5)  
180 cells: DHM-T60X10/BF/FS(BW)-xxxW (xxx = 440 - 460, in increment of 5)  
180 cells: DHM-T60X10/BF/FS(BB)-xxxW (xxx = 440 - 460, in increment of 5)

Maximum system voltage:	1500V
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 C 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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