

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**Tangshan Haitai New Energy Technology Co., Ltd.**  
Yutai Industrial Zone, Yutian, Tangshan City  
Hebei Province, 064100, 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: 2024-04-11

Valid until: 2028-11-28

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; IEC 61730-1:2016 / EN IEC 61730-1:2018; IEC 61730-2:2016 / EN IEC 61730-2:2018.
Registered No.:	44 780 19 406749 - 409R6A2M8
Manufacturer and factory(-ies):	See Annex 1
Test Report No.:	492011151.013
File No.:	PVP03112/24P



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Essen, 2024-04-11

Please also pay attention to the information stated overleaf.

**Manufacturer and factory(-ies):**

Manufacturer: **Tangshan Haitai New Energy Technology Co., Ltd.**  
Yutai Industrial Zone, Yutian, Tangshan City  
Hebei Province, 064100, P.R. China

Factory 1: **Tangshan Haitai New Energy Technology Co., Ltd.**  
Yutai Industrial Zone, Yutian, Tangshan City  
Hebei Province, 064100, P.R. China

Factory inspection report no.: 862010337.007

Factory 2: **Tangshan Xingtai Photovoltaic Equipment Manufacturing Co., Ltd.**  
Cao Fei Dian New Emerging Industry Park , Tangshan City

Factory inspection report no.: 862010951.001

**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>Double Glass PV Modules with 6" Mono Solar Cells:</b> 72 cells: HTMxxxDMA-72 (xxx=335-380, in increments of 5) 60 cells: HTMxxxDMA-60 (xxx=280-315, in increments of 5) Remark: The power parameter included in the module types only indicates maximum power output of front side.
Maximum system voltage:	1500V / 1000V
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 C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	<b>Double Glass PV Modules with 6" Mono Half-cut Solar Cells:</b> 144 half-cut cells: HTMxxxDMH-72 (xxx=375-395, in increments of 5) 120 half-cut cells: HTMxxxDMH-60 (xxx=315-330, in increments of 5) 144 half-cut cells: HTMxxxDMH2-72 (xxx=385-405, in increments of 5) 120 half-cut cells: HTMxxxDMH2-60 (xxx=320-335, in increments of 5) 144 half-cut cells: HTMxxxDMH3-72 (xxx=435-470, in increments of 5) 120 half-cut cells: HTMxxxDMH3-60 (xxx=365-390, in increments of 5) Remark: The power parameter included in the module types only indicates maximum power output of front side.
Maximum system voltage:	1500V / 1000V
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)



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Module types:	<b>Double Glass PV Modules with 8" Mono Half-cut Solar Cells:</b> 132 half-cut cells: HTMxxxDMH8-66NH (xxx=670-700, in increments of 5) 120 half-cut cells: HTMxxxDMH8-60NH (xxx=610-635, in increments of 5) Remark: The power parameter included in the module types only indicates maximum power output of front side.
Maximum system voltage:	1500V / 1000V
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 C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	<b>Double Glass PV Modules with 6" Mono Half-cut Solar Cells:</b> 144 half-cut cells: HTMxxxDMH3-72NH (xxx=450-475, in increments of 5) 120 half-cut cells: HTMxxxDMH3-60NH (xxx=375-395, in increments of 5) Remark: The power parameter included in the module types only indicates maximum power output of front side.
Maximum system voltage:	1500V / 1000V
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)



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Module types:	<b>Double Glass PV Modules with 7" Mono Half-cut Solar Cells:</b> 156 half-cut cells: HTMxxxDMH5-78 (xxx=580-605, in increments of 5) 144 half-cut cells: HTMxxxDMH5-72 (xxx=525-555, in increments of 5) 120 half-cut cells: HTMxxxDMH5-60 (xxx=440-460, in increments of 5) 108 half-cut cells: HTMxxxDMH5-54 (xxx=395-415, in increments of 5) Remark: The power parameter included in the module types only indicates maximum power output of front side.
Maximum system voltage:	1500V / 1000V
Fuse rating:	25
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>Double Glass PV Modules with 8" Mono 1/3 cut Solar Cells:</b> 150 1/3 cut cells: HTMxxxDMT8-50 (xxx=485-510, in increments of 5) 120 1/3 cut cells: HTMxxxDMT8-40 (xxx=390-405, in increments of 5) Remark: The power parameter included in the module types only indicates maximum power output of front side.
Maximum system voltage:	1500V / 1000V
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)



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Module types:	<b>Double Glass PV Modules with 8" Mono Half-cut Solar Cells:</b> 132 half-cut cells: HTMxxxDMH8-66 (xxx=635-670, in increments of 5) 120 half-cut cells: HTMxxxDMH8-60 (xxx=585-605, in increments of 5) 132 half-cut cells: HTMxxxDMH8-66NT (xxx=660-700, in increments of 5) 120 half-cut cells: HTMxxxDMH8-60NT (xxx=600-635, in increments of 5) Remark: The power parameter included in the module types only indicates maximum power output of front side.
Maximum system voltage:	1500V / 1000V
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 C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	<b>Double Glass PV Modules with 182x105mm TOPCon Solar Cells:</b> 132 half-cut cells: HTMxxxDMH6-66NT (xxx=605-620, in increments of 5) 96 half-cut cells: HTMxxxDMH6-48NT (xxx=440-450, in increments of 5) Remark: The power parameter included in the module types only indicates maximum power output of front side.
Maximum system voltage:	1500V / 1000V
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 C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:	<b>Double Glass PV Modules with 7" TOPCon Half-cut Solar Cells:</b> 156 half-cut cells: HTMxxxDMH5-78NT (xxx=605-640, in increments of 5) 144 half-cut cells: HTMxxxDMH5-72NT (xxx=545-590, in increments of 5) 120 half-cut cells: HTMxxxDMH5-60NT (xxx=455-490, in increments of 5) 108 half-cut cells: HTMxxxDMH5-54NT (xxx=410-440, in increments of 5) Remark: The power parameter included in the module types only indicates maximum power output of front side.
Maximum system voltage:	1500V / 1000V
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).



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