

To / 致:

Company / 公司: Jolywood (Taizhou) Solar Technology Co., Ltd.

Contact / 联系人: Ms. Man Zhang

Email / 邮箱: zhangm@jolywood.cn

From / 自:

Company / 公司: TÜV NORD (HANGZHOU) CO., LTD. / 杭州汉德质量认证服务有限公司

Contact / 联系人: Ms. Serena.Wu / 邬玉婷 小姐

Email / 邮箱: sewu@tuv-nord.com

Subject: Announcement of cancellation

主题: 证书取消通知

File No.: PVP05128/24P-05

项目号:

License holder: Jolywood (Taizhou) Solar Technology Co., Ltd.

持证人:

Certificate No.: 44 780 23 406749 - 076R1A2M3

证书号:

Product: Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

产品: 地面用晶体硅光伏组件

Herewith it is declared, that the above noted certificate(s) has (have) been invalidated since 2024-12-10
特此声明, 上述证书自 2024 年 12 月 10 日起失效。

The cancellation is due to:

取消原因:

License holder applied for cancellation.

持证人申请取消。

New certificate(s) (no: 44 780 23 406749 - 076R2A3M4) has (have) been issued to replace the cancelled one(s).

新证书(证书号: 44 780 23 406749 - 076R2A3M4) 签发, 取代旧证书。

Certificate(s) is (are) expired.

证书有效期至。

Certificate(s) has (have) been suspended for one year, and the factory inspection, verification, and rectification required to restore the certificate(s) has (have) not been completed.

证书暂停满一年, 未完成恢复证书所需厂检、核查、整改等。

Certificate(s) has (have) been suspended for one year, and the annual certificate fee has (have) not been paid.

证书暂停满一年, 未支付证书年费。

Others: _____

其他情况: _____

Please pay attention to stop using the invalid certificate(s) from 2024-12-10. Meanwhile, please send back the original copies of above mentioned certificate(s) to us.

请注意从 2024 年 12 月 10 日开始停止使用无效证书。同时，请将上述证书原件寄回给我们。

TÜV NORD reserved the right of final explanation about the cancellation of certificate(s). TÜV NORD will not take any responsibility for the circumstance of misusing the invalid certificate(s) by the license holder or the manufacturer.

TÜV NORD 保留对证书取消的最终解释权。TÜV NORD 对证书持有者或制造商滥用无效证书的情况不承担任何责任。

Renewable Energy / 可再生能源

TÜV NORD (Hangzhou) Co., Ltd. / 杭州汉德质量认证服务有限公司



Serena.Wu / 鄂玉婷

Technical Support / 技术支持

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Jolywood (Taizhou) Solar Technology Co., Ltd.
Kaiyang Rd. Jiangyan Economic Development Zone
Taizhou City, Jiangsu Province, 225500
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: 2024-12-10

Valid until: 2028-03-23

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: $5\pm 0.5\text{g/m}^3$; Wind velocity: $20\pm 2\text{m/s}$; Test duration: 4 hours each side.
Registered No.:	44 780 23 406749 - 076R2A3M4
Manufacturer and factory(-ies):	See Annex 1
Test Report No.:	492012350.005
File No.:	PVP11139/24P-04


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Essen, 2024-12-10

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 23 406749 - 076R2A3M4

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Aktenzeichen: / File reference: PVP11139/24P-04

2024-12-10

Manufacturer and factory(-ies):

Manufacturer: **Jolywood (Taizhou) Solar Technology Co., Ltd.**
Kaiyang Rd. Jiangyan Economic Development Zone
Taizhou City, Jiangsu Province, 225500, P.R. China

Factory: **Jolywood (Taizhou) Solar Technology Co., Ltd.**
Kaiyang Rd. Jiangyan Economic Development Zone
Taizhou City, Jiangsu Province, 225500, P.R. China

Factory inspection report no.: 862010439.005

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 157.35mm to 158.75mm Mono n-type Bifacial Solar Cells: 72 cells: JW-D72N-xxx (xxx=365-410, in steps of 5) 60 cells: JW-D60N-xxx (xxx=305-340, in steps of 5) Remark: xxx indicates output power from the front side only
Maximum system voltage:	1500V
Overcurrent protection rating:	20A
Electrical protection class:	Class II
Module types:	Double Glass PV Modules with 158.75mm Half-cut Mono n-type Bifacial Solar Cells: 156 cells: JW-HD156N-xxx (xxx=425-455, in steps of 5) 144 cells: JW-HD144N-xxx (xxx=390-420, in steps of 5) 120 cells: JW-HD120N-xxx (xxx=325-350, in steps of 5) Remark: xxx indicates output power from the front side only
Maximum system voltage:	1500V
Overcurrent protection rating:	20A
Electrical protection class:	Class II
Module types:	Double Glass PV Modules with 158.75mm Half-cut Mono p-type Bifacial Solar Cells: 156 cells: JW-HD156P-xxx (xxx=425-450, in steps of 5) 144 cells: JW-HD144P-xxx (xxx=390-415, in steps of 5) 120 cells: JW-HD120P-xxx (xxx=325-345, in steps of 5) Remark: xxx indicates output power from the front side only
Maximum system voltage:	1500V
Overcurrent protection rating:	20A
Electrical protection class:	Class II
Module types:	Double Glass PV Modules with 166mm Half-cut Mono n-type Bifacial Solar Cells: 144 cells: JW-HD144N-xxx (xxx=430-470, in steps of 5) 120 cells: JW-HD120N-xxx (xxx=360-390, in steps of 5) Remark: xxx indicates output power from the front side only
Maximum system voltage:	1500V

Overcurrent protection rating: 30A
Electrical protection class: Class II

Module types: **Double Glass PV Modules with 166mm Half-cut Mono p-type Bifacial Solar Cells:**

144 cells: JW-HD144P-xxx (xxx=430-450, in steps of 5)
120 cells: JW-HD120P-xxx (xxx=360-375, in steps of 5)
Remark: xxx indicates output power from the front side only

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

Module types: **Double Glass PV Modules with 182mm Half-cut Mono n-type Bifacial Solar Cells:**

156 cells: JW-HD156N-xxx (xxx=580-635, in steps of 5)
144 cells: JW-HD144N-xxx (xxx=525-590, in steps of 5)
120 cells: JW-HD120N-xxx (xxx=435-485, in steps of 5)
132 cells: JW-HD132N-xxx (xxx=485-535, in steps of 5)
108 cells: JW-HD108N-xxx (xxx=395-445, in steps of 5)
156 cells: JW-HD156N-xxxS (xxx=610-635, in steps of 5)
144 cells: JW-HD144N-xxxS (xxx=545-590, in steps of 5)
108 cells: JW-HD108N-xxxS (xxx=415-445, in steps of 5)
Remark: xxx indicates output power from the front side only

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

Module types: **Double Glass PV Modules with 182mm Half-cut Mono p-type Bifacial Solar Cells:**

156 cells: JW-HD156P-xxx (xxx=580-605, in steps of 5)
144 cells: JW-HD144P-xxx (xxx=525-555, in steps of 5)
120 cells: JW-HD120P-xxx (xxx=435-460, in steps of 5)
132 cells: JW-HD132P-xxx (xxx=485-505, in steps of 5)
108 cells: JW-HD108P-xxx (xxx=395-415, in steps of 5)
156 cells: JW-HD156P-xxxS (xxx=580-605, in steps of 5)
144 cells: JW-HD144P-xxxS (xxx=525-555, in steps of 5)
108 cells: JW-HD108P-xxxS (xxx=395-415, in steps of 5)
Remark: xxx indicates output power from the front side only



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

Module types: **Double Glass PV Modules with 210mm Half-cut Mono n-type Bifacial Solar Cells:**
132 cells: JW-HD132N-xxx (xxx=655-715, in steps of 5)
120 cells: JW-HD120N-xxx (xxx=580-655, in steps of 5)
132 cells: JW-HD132N-xxxS (xxx=655-715, in steps of 5)
120 cells: JW-HD120N-xxxS (xxx=580-655, in steps of 5)
Remark: xxx indicates output power from the front side only

Maximum system voltage: 1500V
Overcurrent protection rating: 35A
Electrical protection class: Class II

Module types: **Double Glass PV Modules with 210mm Half-cut Mono p-type Bifacial Solar Cells:**
120 cells: JW-HD120P-xxx (xxx=580-610, in steps of 5)
Remark: xxx indicates output power from the front side only

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

Module types: **Double Glass PV Modules with 182.2*183.75 Half-cut Mono n-type Bifacial Solar Cell NM10L16B, N183.75R16B**
156 cells: JW-HD156N-R0-xxx (xxx=610-645, in steps of 5)
144 cells: JW-HD144N-R0-xxx (xxx=570-595, in steps of 5)
108 cells: JW-HD108N-R0-xxx (xxx=420-450, in steps of 5)
156 cells: JW-HD156N-R0-xxxS (xxx=610-645, in steps of 5)
144 cells: JW-HD144N-R0-xxxS (xxx=570-595, in steps of 5)
108 cells: JW-HD108N-R0-xxxS (xxx=420-450, in steps of 5)
Remark: xxx indicates output power from the front side only

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



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Module types: **Double Glass PV Modules with 182.2*186.7 and 182.2*187.5 Half-cut Mono n-type Bifacial Solar Cell NM10L216B, NM10L4-16B**
120 cells: JW-HD120N-R3-xxx (xxx=480-515, in steps of 5)
108 cells: JW-HD108N-R3-xxx (xxx=430-460, in steps of 5)
120 cells: JW-HD120N-R3-xxxS (xxx=480-515, in steps of 5)
108 cells: JW-HD108N-R3-xxxS (xxx=430-460, in steps of 5)
Remark: xxx indicates output power from the front side only

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

Module types: **Double Glass PV Modules with 182.2*191.6 Half-cut Mono n-type Bifacial Solar Cell N191.6R16B**
144 cells: JW-HD144N-R1-xxx (xxx=595-625, in steps of 5)
120 cells: JW-HD120N-R1-xxx (xxx=495-525, in steps of 5)
108 cells: JW-HD108N-R1-xxx (xxx=445-470, in steps of 5)
144 cells: JW-HD144N-R1-xxxS (xxx=595-625, in steps of 5)
120 cells: JW-HD120N-R1-xxxS (xxx=495-525, in steps of 5)
108 cells: JW-HD108N-R1-xxxS (xxx=445-470, in steps of 5)
Remark: xxx indicates output power from the front side only

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

Module types: **Double Glass PV Modules with 182*199 Half-cut Mono n-type Bifacial Solar Cell N199R-16BB**
144 cells: JW-HD144N-R4-xxx (xxx=610-640, in steps of 5)
144 cells: JW-HD144N-R4-xxxS (xxx=610-640, in steps of 5)
Remark: xxx indicates output power from the front side only

Maximum system voltage: 1500V
Overcurrent protection rating: 35A
Electrical protection class: Class II

Module types:

Double Glass PV Modules with 182*210 and 182.3*210 Half-cut Mono n-type Bifacial Solar Cell N210R16B

132 cells: JW-HD132N-R2-xxx (xxx=595-635, in steps of 5)

120 cells: JW-HD120N-R2-xxx (xxx=540-575, in steps of 5)

108 cells: JW-HD108N-R2-xxx (xxx=485-515, in steps of 5)

96 cells: JW-HD96N-R2-xxx (xxx=430-460, in steps of 5)

132 cells: JW-HD132N-R2-xxxS (xxx=595-635, in steps of 5)

120 cells: JW-HD120N-R2-xxxS (xxx=540-575, in steps of 5)

108 cells: JW-HD108N-R2-xxxS (xxx=485-515, in steps of 5)

96 cells: JW-HD96N-R2-xxxS (xxx=430-460, in steps of 5)

Remark: xxx indicates output power from the front side only

Maximum system voltage: 1500V

Overcurrent protection rating: 35A

Electrical protection class: Class II

Remark:

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



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