

To / 致:

Company / 公司: Leapton Solar (Changshu)
Co., Ltd.

Contact / 联系人: Mr. Ren Libo

Email / 邮箱: libo.ren@leaptonenergy.com

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.: PVP10051/25P

项目号:

License holder: Leapton Solar (Changshu) Co., Ltd.

持证人:

Certificate No.: 44 780 24 406749 - 251R3M3

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 cancelled since 2026-05-12.
特此声明, 上述证书自 2026 年 5 月 12 日起被取消。

Reasons for cancellation of certificate(s):

取消原因:

☐ License holder applied for cancellation.

持证人申请取消。

☒ New certificate(s) (no: __44 780 24 406749 - 251R4M4__) has (have) been issued to replace the cancelled one(s).

新证书 (证书号: __44 780 24 406749 - 251R4M4__) 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, 且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 stop using the invalid certificate(s) from 2026-05-12. Meanwhile, please send back the original copies of above-mentioned certificate(s) to us.

请从 2026 年 5 月 12 日起停止使用无效证书，并将上述证书原件寄回给我司。

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。



Serena.Wu / 邬玉婷

Technical Support / 技术支持

Renewable Energy / 可再生能源

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

Certificate



This certifies that the company:

Leapton Solar (Changshu) Co., Ltd.

No. 9, Sunshine Avenue, Yushan High Technology Industry
Zone, Changshu City, Jiangsu Province, 215500
P.R. China

is authorized to provide the product(s) mentioned below with the mark as illustrated.

Manufacturer and factory(-ies): See Annex 1

Description of product(s) **Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**
(details see Annex 2):

Trademark: See Annex 1

Certification scheme: P12.4-VA-01 Rev. 01 / 01.26 Certification scheme type: Type 5 acc. to ISO/IEC 17067:2013

Certification fundamental(s): IEC 61215-1:2021 / EN IEC 61215-1:2021,
IEC 61215-1-1:2021 / EN IEC 61215-1-1:2021, IEC 61215-2:2021 / EN IEC 61215-2:2021,
IEC 61730-1:2023, IEC 61730-2:2023

It is certified by TÜV NORD CERT GmbH that the product(s) described above has(have) been assessed according to the certification program mentioned above and found in compliance with the requirements of above specified certification fundamental(s). This certification is based on evaluation results as documented in test report(s) referenced below and production site(s) audit results as documented in factory inspection report(s) referenced in Annex 1. This certificate is valid in conjunction with these quoted report(s).

Registration no.: 44 780 24 406749 - 251R4M4

Report no.: 492013113.006

File no.: PVP01049/26P-001

Valid from: 2026-05-12

Valid until: 2029-06-25

Essen, 2026-05-12

Certification Body - Consumer Products

TÜV NORD CERT GmbH

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Please also pay attention to the information stated overleaf.

TÜV®



Scan the QR code or
visit cis.tuv-nord.com.cn to verify
the validity of the
certificate

Annex 1

to certificate registration no. 44 780 24 406749 - 251R4M4

Manufacturer:

Leapton Solar (Changshu) Co., Ltd.

No. 9, Sunshine Avenue, Yushan High Technology Industry Zone, Changshu City
Jiangsu Province, 215500, P.R. China

Trademark:



Factory:

Leapton Solar (Changshu) Co., Ltd.

No. 9, Sunshine Avenue, Yushan High Technology Industry Zone, Changshu City
Jiangsu Province, 215500, P.R. China

Factory inspection report no.: 862010379.008

Remark: Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.

Essen, 2026-05-12



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Annex 2

to certificate registration no. 44 780 24 406749 - 251R4M4

Description of product(s):

Module types:

Double Glass PV Modules with Half-cut 210*210mm n-type TOPCon Bifacial Silicon Solar Cells:

132 cells: LP210*210-M-66-NB-***W (***) = 665-730, in increment of 5)
 120 cells: LP210*210-M-60-NB-***W (***) = 610-665, in increment of 5)
 108 cells: LP210*210-M-54-NB-***W (***) = 550-595, in increment of 5)
 96 cells: LP210*210-M-48-NB-***W (***) = 490-530, in increment of 5)
 84 cells: LP210*210-M-42-NB-***W (***) = 430-465, in increment of 5)
 *** indicates rated output power generated from front side under STC

Maximum system voltage:	1500V
Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
98 th percentile module operating temperature (T ₉₈):	70°C
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class A according to UL790
Isc bifaciality coefficient (φ _{Isc}):	80% ± 10%

Module types:

Double Glass PV Modules with Half-cut 182*182/188mm n-type TOPCon Bifacial Silicon Solar Cells:

156 cells: LP182*182-M-78-NB-***W (***) = 580-620, in increment of 5)
 144 cells: LP182*182-M-72-NB-***W (***) = 535-635, in increment of 5)
 132 cells: LP182*182-M-66-NB-***W (***) = 490-580, in increment of 5)
 120 cells: LP182*182-M-60-NB-***W (***) = 445-530, in increment of 5)
 108 cells: LP182*182-M-54-NB-***W (***) = 400-475, in increment of 5)
 *** indicates rated output power generated from front side under STC

Maximum system voltage:	1500V
Maximum overcurrent protection rating:	25A
Electrical protection class:	Class II

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Annex 2

to certificate registration no. 44 780 24 406749 - 251R4M4

Pollution degree:	1
98 th percentile module operating temperature (T ₉₈):	70°C
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class A according to UL790
Isc bifaciality coefficient (ϕ _{Isc}):	80% ± 10%

Module types:	Double Glass PV Modules with Half-cut 182*210mm n-type TOPCon Bifacial Silicon Solar Cells: 132 cells: LP182*210-M-66-NB-***W (***) = 580-640, in increment of 5) 120 cells: LP182*210-M-60-NB-***W (***) = 530-580, in increment of 5) 108 cells: LP182*210-M-54-NB-***W (***) = 475-520, in increment of 5) 96 cells: LP182*210-M-48-NB-***W (***) = 420-465, in increment of 5) *** indicates rated output power generated from front side under STC
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Maximum system voltage:	1500V
Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
98 th percentile module operating temperature (T ₉₈):	70°C
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class A according to UL790
Isc bifaciality coefficient (ϕ _{Isc}):	80% ± 10%

Module types:	Double Glass PV Modules with Half-cut 182*199/191mm n-type TOPCon Bifacial Silicon Solar Cells: 144 cells: LP182*199-M-72-NB-***W (***) = 570-655, in increment of 5) 132 cells: LP182*199-M-66-NB-***W (***) = 525-600, in increment of 5) 120 cells: LP182*199-M-60-NB-***W (***) = 475-545, in increment of 5) 108 cells: LP182*199-M-54-NB-***W (***) = 430-490, in increment of 5)
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to certificate registration no. 44 780 24 406749 - 251R4M4

	*** indicates rated output power generated from front side under STC
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	25A
Electrical protection class:	Class II
Pollution degree:	1
98 th percentile module operating temperature (T ₉₈):	70°C
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class A according to UL790
Isc bifaciality coefficient (φ _{Isc}):	80% ± 10%

Module types:

Double Glass PV Modules with 1/4-cut 182.3*213mm n-type TOPCon Bifacial Silicon Solar Cells:

264 cells: LP182*210-M-66Q-NB-***W (*** = 620-670, in increment of 5)
 252 cells: LP182*210-M-63Q-NB-***W (*** = 590-640, in increment of 5)
 240 cells: LP182*210-M-60Q-NB-***W (*** = 565-610, in increment of 5)
 228 cells: LP182*210-M-57Q-NB-***W (*** = 535-575, in increment of 5)
 216 cells: LP182*210-M-54Q-NB-***W (*** = 510-545, in increment of 5)
 204 cells: LP182*210-M-51Q-NB-***W (*** = 480-515, in increment of 5)
 192 cells: LP182*210-M-48Q-NB-***W (*** = 450-485, in increment of 5)
 180 cells: LP182*210-M-45Q-NB-***W (*** = 425-455, in increment of 5)
 168 cells: LP182*210-M-42Q-NB-***W (*** = 395-425, in increment of 5)

*** indicates rated output power generated from front side under STC

Maximum system voltage:	1500V
Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
98 th percentile module operating temperature (T ₉₈):	70°C
Design load (positive / negative):	3600Pa / 1600Pa

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Safety factors: 1.5
Fire safety class: Class A according to UL790
Isc bifaciality coefficient (ϕ_{Isc}): $85\% \pm 10\%$

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) with the same file no.

Isc bifaciality coefficient (ϕ_{Isc}) = $I_{SCrear}/I_{SCfront}$, as defined in IEC TS 60904-1-2.

The tolerance of Isc bifaciality coefficient (ϕ_{Isc}) is claimed by client.

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