

**To / 致:**Company / 公司: Lepton Solar (Changshu)  
Co., Ltd.

Contact / 联系人: Mr. Weidong Jiang

Email / 邮箱: weidong.jiang@leptonenergy.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. Miley Li / 李文颖 小姐

Email / 邮箱: wli@tuv-nord.com

**Subject: Announcement of cancellation**

主题: 证书取消通知

File No.: PVP09020/22P-07

项目号:

License holder: **Lepton Solar (Changshu) Co., Ltd.**持证人: No. 9, Sunshine Avenue, Yushan High Technology Industry Zone, Changshu City  
Jiangsu Province, 215500, P.R. China

Certificate No.: 44 780 23 406749 - 118R2M2

证书号:

Product: Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

产品: 晶硅光伏组件

Herewith it is declared, that the above noted certificate(s) has (have) been invalidated since 2023-08-29.

特此声明, 上述证书自 2023 年 8 月 29 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 - 118R2M3\_\_\_) has (have) been issued to replace the cancelled one(s).

新证书(证书号: 44 780 23 406749 - 118R2M3\_) 签发, 取代旧证书。

 After the expiry date of the certificate(s), the certificate(s) has (have) not been renewed within 6 months.

证书到期 6 个月内未续证。

 After the expiry date of last factory inspection conclusion, no factory inspection has been conducted or no payment of annual fees has been received within 6 months.

上一厂检结论有效期到期后, 6 个月内未配合厂检或未支付年度费用。

 No payment of annual fees has been received within 6 month after last period of payment of annual fees.

上一证书年费支付期后, 超过 6 个月未支付证书年费。

 Others: \_\_\_\_\_

其他情况: \_\_\_\_\_

Please pay attention to stop using the invalid certificate(s) from 2023-08-29. Meanwhile, please send back the original copies of above mentioned certificate(s) to us.

请注意从 2023 年 8 月 29 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

Miley Li / 李文颖   
Technical Support / 技术支持

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**Lepton 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 mentioned below with the mark as illustrated:

**Description of product (details see Annex 2):**

**Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**



Valid from: 2023-08-29  
Valid until: 2028-05-09

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 23 406749 - 118R2M3
Manufacturer:	see Annex 1
Test Report No.:	492012428.004
File No.:	PVP08067/23P-01



**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products



Essen, 2023-08-29

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 23 406749 - 118R2M3

Seite / Page 1 von / of 1

Aktenzeichen: / File reference: PVP08067/23P-01

2023-08-29

**Manufacturer:**

Manufacturer:

**Lepton 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.:

862010379.006

Remark:

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



**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products

**Description of product(s):**

Module types:

**PV Modules with 6" Mono-crystalline Silicon Solar Cells:**

72 cells: LP156\*156-M-72-\*\*\*W(\*\*\* = 310-375, in increment of 5)

60 cells: LP156\*156-M-60-\*\*\*W(\*\*\* = 260-310, in increment of 5)

54 cells: LP156\*156-M-54-\*\*\*W(\*\*\* = 235-270, in increment of 5)

48 cells: LP156\*156-M-48-\*\*\*W(\*\*\* = 205-240, in increment of 5)

42 cells: LP156\*156-M-42-\*\*\*W(\*\*\* = 185-210, in increment of 5)

36 cells: LP156\*156-M-36-\*\*\*W(\*\*\* = 160-180, in increment of 5)

30 cells: LP156\*156-M-30-\*\*\*W(\*\*\* = 135-150, in increment of 5)

Maximum system voltage:

1500V

Fuse rating:

15A

Electrical protection class:

Class II

Pollution degree:

1

Material group:

I or II

Design load (positive / negative):

5400Pa (positive) / 2400Pa (negative) or  
3600Pa (positive) / 1600Pa (negative)

Safety factors:

1.5

Fire safety class:

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

Module types:

**PV Modules with 6" Mono-crystalline Silicon Solar Cells:**

72 cells: LP158\*158-M-72-\*\*\*W(\*\*\* = 380-395, in increment of 5)

60 cells: LP158\*158-M-60-\*\*\*W(\*\*\* = 320-330, in increment of 5)

Maximum system voltage:

1500V

Fuse rating:

15A

Electrical protection class:

Class II

Pollution degree:

1

Material group:

I or II

Design load (positive / negative):

3600Pa (positive) / 1600Pa (negative)

Safety factors:

1.5

Fire safety class:

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

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Module types: **PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells:**  
144 cells: LP158\*158-M-72-H-\*\*\*W (\*\*\*) = 365-400, in increment of 5)  
132 cells: LP158\*158-M-66-H-\*\*\*W (\*\*\*) = 335-365, in increment of 5)  
120 cells: LP158\*158-M-60-H-\*\*\*W (\*\*\*) = 305-330, in increment of 5)

Maximum system voltage: 1500V  
Fuse rating: 15A  
Electrical protection class: Class II  
Pollution degree: 1  
Material group: I or II  
Design load (positive / negative): 3600Pa (positive) / 1600Pa (negative)  
Safety factors: 1.5  
Fire safety class: Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)

Module types: **PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells:**  
144 cells: LP158\*158-M-72-MH-\*\*\*W (\*\*\*) = 390-410, in increment of 5)  
132 cells: LP158\*158-M-66-MH-\*\*\*W (\*\*\*) = 360-375, in increment of 5)  
120 cells: LP158\*158-M-60-MH-\*\*\*W (\*\*\*) = 325-340, in increment of 5)

Maximum system voltage: 1500V  
Fuse rating: 15A  
Electrical protection class: Class II  
Pollution degree: 1  
Material group: I or II  
Design load (positive / negative): 3600Pa (positive) / 1600Pa (negative)  
Safety factors: 1.5  
Fire safety class: Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)



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Module types:	<b>PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells:</b> 144 cells: LP166*166-M-72-MH-***W (** = 420-455, in increment of 5) 132 cells: LP166*166-M-66-MH-***W (** = 385-415, in increment of 5) 120 cells: LP166*166-M-60-MH-***W (** = 350-380, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)

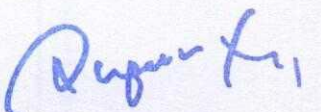
Module types:	<b>PV Modules with 7" Half Cut Mono-crystalline Silicon Solar Cells:</b> 156 cells: LP182*182-M-78-MH-***W (** = 560-605, in increment of 5) 144 cells: LP182*182-M-72-MH-***W (** = 515-570, in increment of 5) 132 cells: LP182*182-M-66-MH-***W (** = 475-520, in increment of 5) 120 cells: LP182*182-M-60-MH-***W (** = 430-475, in increment of 5) 108 cells: LP182*182-M-54-MH-***W (** = 390-425, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	25A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)



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Module types:	<b>PV Modules with 8" Half Cut Mono-crystalline Silicon Solar Cells:</b> 132 cells: LP210*210-M-66-MH-***W (***) = 630-670, in increment of 5) 120 cells: LP210*210-M-60-MH-***W (***) = 575-610, in increment of 5) 108 cells: LP210*210-M-54-MH-***W (***) = 515-545, in increment of 5) 96 cells: LP210*210-M-48-MH-***W (***) = 460-485, in increment of 5) 84 cells: LP210*210-M-42-MH-***W (***) = 400-425, in increment of 5) 110 cells: LP210*210-M-55-MH-***W (***) = 520-555, in increment of 5) 100 cells: LP210*210-M-50-MH-***W (***) = 475-505, in increment of 5) 90 cells: LP210*210-M-45-MH-***W (***) = 425-455, in increment of 5) 80 cells: LP210*210-M-40-MH-***W (***) = 380-400, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I or II
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)

Module types:	<b>PV Modules with half-cut 7" n-type TOPCon Bifacial Mono Solar Cells:</b> 156 cells: LP182*182-M-78-NH-***W (***) = 580-625, in increment of 5) 144 cells: LP182*182-M-72-NH-***W (***) = 555-600, in increment of 5) 132 cells: LP182*182-M-66-NH-***W (***) = 510-550, in increment of 5) 120 cells: LP182*182-M-60-NH-***W (***) = 460-500, in increment of 5) 108 cells: LP182*182-M-54-NH-***W (***) = 410-450, 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 (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (per ANSI/UL 790-2018)



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Module types:	<b>PV Modules with half-cut 8" n-type Topcon Bifacial Mono Solar Cells:</b> 132 cells: LP210*210-M-66-NH-***W (** = 675-705, in increment of 5) 120 cells: LP210*210-M-60-NH-***W (** = 615-640, in increment of 5) 108 cells: LP210*210-M-54-NH-***W (** = 555-575, in increment of 5) 96 cells: LP210*210-M-48-NH-***W (** = 490-510, in increment of 5) 84 cells: LP210*210-M-42-NH-***W (** = 430-445, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa (positive) / 1600Pa (negative)
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (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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## Certificate of conformity with the following European Directives

Registered No.:  
**44 799 23 406749 - 277**

### Low-Voltage Directive 2014/35/EU

Date of application	File reference	Test report No.	Date of issue	Place of issue
2023-08-07	PVP08067/23P-01	492012428.004	2023-08-29	Essen

This is to certify that the following products comply to the essential requirements of the above mentioned European Directive and the following standards, taking into account the German national deviations:

**Product:** Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

**Type designation:** See Annex 1

**Applicant:** **Leapton Solar (Changshu) Co., Ltd.**  
No. 9, Sunshine Avenue, Yushan High Technology Industry Zone, Changshu  
City  
Jiangsu Province, 215500, P.R. China

**Standard(s):** EN IEC 61730-1:2018; EN IEC 61730-1:2018/AC:2018-06  
EN IEC 61730-2:2018; EN IEC 61730-2:2018/AC:2018-06

This Certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.



Certification Body  
Specialist Manager Consumer Products

TÜV NORD CERT GmbH  
Am TÜV 1  
D-45307 Essen  
P.O.Box 10 32 61  
D-45032 Essen  
Fon: +49 (0)201 825-5120  
Fax: +49 (0)201 825-3209  
Email: prodcert@tuev-nord.de

**Description of product(s):**

Module types:

**PV Modules with 6" Mono-crystalline Silicon Solar Cells:**

72 cells: LP156\*156-M-72-\*\*\*W(\*\*\* = 310-375, in increment of 5)

60 cells: LP156\*156-M-60-\*\*\*W(\*\*\* = 260-310, in increment of 5)

54 cells: LP156\*156-M-54-\*\*\*W(\*\*\* = 235-270, in increment of 5)

48 cells: LP156\*156-M-48-\*\*\*W(\*\*\* = 205-240, in increment of 5)

42 cells: LP156\*156-M-42-\*\*\*W(\*\*\* = 185-210, in increment of 5)

36 cells: LP156\*156-M-36-\*\*\*W(\*\*\* = 160-180, in increment of 5)

30 cells: LP156\*156-M-30-\*\*\*W(\*\*\* = 135-150, in increment of 5)

72 cells: LP158\*158-M-72-\*\*\*W(\*\*\* = 380-395, in increment of 5)

60 cells: LP158\*158-M-60-\*\*\*W(\*\*\* = 320-330, in increment of 5)

Module types:

**PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells:**

144 cells: LP158\*158-M-72-H-\*\*\*W (\*\* = 365-400, in increment of 5)

132 cells: LP158\*158-M-66-H-\*\*\*W (\*\* = 335-365, in increment of 5)

120 cells: LP158\*158-M-60-H-\*\*\*W (\*\* = 305-330, in increment of 5)

144 cells: LP158\*158-M-72-MH-\*\*\*W (\*\* = 390-410, in increment of 5)

132 cells: LP158\*158-M-66-MH-\*\*\*W (\*\* = 360-375, in increment of 5)

120 cells: LP158\*158-M-60-MH-\*\*\*W (\*\* = 325-340, in increment of 5)

144 cells: LP166\*166-M-72-MH-\*\*\*W (\*\* = 420-455, in increment of 5)

132 cells: LP166\*166-M-66-MH-\*\*\*W (\*\* = 385-415, in increment of 5)

120 cells: LP166\*166-M-60-MH-\*\*\*W (\*\* = 350-380, in increment of 5)

Module types:

**PV Modules with 7" Half Cut Mono-crystalline Silicon Solar Cells:**

156 cells: LP182\*182-M-78-MH-\*\*\*W (\*\* = 560-605, in increment of 5)

144 cells: LP182\*182-M-72-MH-\*\*\*W (\*\* = 515-570, in increment of 5)

132 cells: LP182\*182-M-66-MH-\*\*\*W (\*\* = 475-520, in increment of 5)

120 cells: LP182\*182-M-60-MH-\*\*\*W (\*\* = 430-475, in increment of 5)

108 cells: LP182\*182-M-54-MH-\*\*\*W (\*\* = 390-425, in increment of 5)

Module types:

**PV Modules with 8" Half Cut Mono-crystalline Silicon Solar Cells:**

132 cells: LP210\*210-M-66-MH-\*\*\*W (\*\* = 630-670, in increment of 5)

120 cells: LP210\*210-M-60-MH-\*\*\*W (\*\* = 575-610, in increment of 5)



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Consumer Products

108 cells: LP210\*210-M-54-MH-\*\*\*W (\*\* = 515-545, in increment of 5)  
96 cells: LP210\*210-M-48-MH-\*\*\*W (\*\* = 460-485, in increment of 5)  
84 cells: LP210\*210-M-42-MH-\*\*\*W (\*\* = 400-425, in increment of 5)  
110 cells: LP210\*210-M-55-MH-\*\*\*W (\*\* = 520-555, in increment of 5)  
100 cells: LP210\*210-M-50-MH-\*\*\*W (\*\* = 475-505, in increment of 5)  
90 cells: LP210\*210-M-45-MH-\*\*\*W (\*\* = 425-455, in increment of 5)  
80 cells: LP210\*210-M-40-MH-\*\*\*W (\*\* = 380-400, in increment of 5)

Module types:

**PV Modules with half-cut 7" n-type TOPCon Bifacial Mono Solar Cells:**

156 cells: LP182\*182-M-78-NH-\*\*\*W (\*\* = 580-625, in increment of 5)  
144 cells: LP182\*182-M-72-NH-\*\*\*W (\*\* = 555-600, in increment of 5)  
132 cells: LP182\*182-M-66-NH-\*\*\*W (\*\* = 510-550, in increment of 5)  
120 cells: LP182\*182-M-60-NH-\*\*\*W (\*\* = 460-500, in increment of 5)  
108 cells: LP182\*182-M-54-NH-\*\*\*W (\*\* = 410-450, in increment of 5)

Module types:

**PV Modules with half-cut 8" n-type TOPCon Bifacial Mono Solar Cells:**

132 cells: LP210\*210-M-66-NH-\*\*\*W (\*\* = 675-705, in increment of 5)  
120 cells: LP210\*210-M-60-NH-\*\*\*W (\*\* = 615-640, in increment of 5)  
108 cells: LP210\*210-M-54-NH-\*\*\*W (\*\* = 555-575, in increment of 5)  
96 cells: LP210\*210-M-48-NH-\*\*\*W (\*\* = 490-510, in increment of 5)  
84 cells: LP210\*210-M-42-NH-\*\*\*W (\*\* = 430-445, in increment of 5)



TÜV NORD CERT GmbH  
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Consumer Products

**To / 致:**

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

Contact / 联系人: Mr. Weidong Jiang

Email / 邮箱: weidong.jiang@leptonenergy.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. Miley Li / 李文颖 小姐

Email / 邮箱: wli@tuv-nord.com

**Subject: Announcement of cancellation**

主题: 证书取消通知

File No.: PVP04137/23P-04

项目号:

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

持证人:

Certificate No.: 44 780 21 406749 - 153R3M2

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 2023-07-31. 特此声明, 上述证书自 2023 年 07 月 31 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 21 406749 - 153R4M4) has (have) been issued to replace the cancelled one(s).

新证书 (证书号: 44 780 21 406749 - 153R4M3) 签发, 取代旧证书。

After the expiry date of the certificate(s), the certificate(s) has (have) not been renewed within 6 months.

证书到期 6 个月内未续证。

After the expiry date of last factory inspection conclusion, no factory inspection has been conducted or no payment of annual fees has been received within 6 months.

上一厂检结论有效期到期后, 6 个月内未配合厂检或未支付年度费用。

No payment of annual fees has been received within 6 month after last period of payment of annual fees.

上一证书年费支付期后, 超过 6 个月未支付证书年费。

Others: \_\_\_\_\_

其他情况: \_\_\_\_\_

Please pay attention to stop using the invalid certificate(s) from 2023-07-31. Meanwhile, please send back the original copies of above mentioned certificate(s) to us.

请注意从 2023 年 07 月 31 日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

Miley Li / 李文颖

Technical Support / 技术支持

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**Lepton 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 mentioned below with the mark as illustrated:

**Description of product (details see Annex 2):**

**Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**



Valid from: 2023-07-31  
Valid until: 2026-08-02

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 21 406749 - 153R4M3
Manufacturer:	see Annex 1
Test Report No.:	492011763.005
File No.:	PVP09020/22P-08



**TÜV NORD CERT GmbH**  
**Certification Body**  
**Consumer Products**



Essen, 2023-07-31

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 21 406749 - 153R4M3

Seite / Page 1 von / of 1

Aktenzeichen: / File reference: PVP09020/22P-08

2023-07-31

**Manufacturer:**

Manufacturer:

**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.:

862010379.006

**Remark:**

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



**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products



**Description of product(s):**

Module types:	<b>Double Glass PV Modules with 7" Half Cut Mono-crystalline Silicon Solar Cells:</b> 144 cells: LP182*182-M-72-MB-***W (***) = 520-550, in increment of 5) 132 cells: LP182*182-M-66-MB-***W (***) = 475-505, in increment of 5) 120 cells: LP182*182-M-60-MB-***W (***) = 435-455, in increment of 5) 108 cells: LP182*182-M-54-MB-***W (***) = 390-410, 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)

Module types:	<b>Double Glass PV Modules with 8" Half Cut Mono-crystalline Silicon Solar Cells:</b> 132 cells: LP210*210-M-66-MB-***W (***) = 630-670, in increment of 5) 120 cells: LP210*210-M-60-MB-***W (***) = 575-610, in increment of 5) 108 cells: LP210*210-M-54-MB-***W (***) = 515-545, in increment of 5) 96 cells: LP210*210-M-48-MB-***W (***) = 460-485, in increment of 5) 84 cells: LP210*210-M-42-MB-***W (***) = 400-425, in increment of 5) 110 cells: LP210*210-M-55-MB-***W (***) = 520-555, in increment of 5) 100 cells: LP210*210-M-50-MB-***W (***) = 475-505, in increment of 5) 90 cells: LP210*210-M-45-MB-***W (***) = 425-455, in increment of 5) 80 cells: LP210*210-M-40-MB-***W (***) = 380-400, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A or 35A
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 half-cut 7" n-type TOPCon Bifacial Mono Solar Cells:</b> 156 cells: LP182*182-M-78-NB-***W (***) = 580-625, in increment of 5) 144 cells: LP182*182-M-72-NB-***W (***) = 555-605, in increment of 5) 132 cells: LP182*182-M-66-NB-***W (***) = 510-555, in increment of 5) 120 cells: LP182*182-M-60-NB-***W (***) = 460-505, in increment of 5) 108 cells: LP182*182-M-54-NB-***W (***) = 410-450, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A or 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 A according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	<b>Double Glass PV Modules with half-cut 8" n-type TOPCon Bifacial Mono Solar Cells:</b> 132 cells: LP210*210-M-66-NB-***W (***) = 675-705, in increment of 5) 120 cells: LP210*210-M-60-NB-***W (***) = 615-640, in increment of 5) 108 cells: LP210*210-M-54-NB-***W (***) = 555-575, in increment of 5) 96 cells: LP210*210-M-48-NB-***W (***) = 490-510, in increment of 5) 84 cells: LP210*210-M-42-NB-***W (***) = 430-445, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A or 35A
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 A 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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## Certificate of conformity with the following European Directives

Registered No.:  
**44 799 23 406749 - 219**

### Low-Voltage Directive 2014/35/EU

Date of application	File reference	Test report No.	Date of issue	Place of issue
2022-09-01	PVP09020/22P-08	492011763.005	2023-07-31	Essen

This is to certify that the following products comply to the essential requirements of the above mentioned European Directive and the following standards, taking into account the German national deviations:

**Product:** Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

**Type designation:** See Annex 1

**Applicant:** **Lepton Solar (Changshu) Co., Ltd.**  
No. 9, Sunshine Avenue, Yushan High Technology Industry Zone, Changshu  
City  
Jiangsu Province, 215500, P.R. China

**Standard(s):** EN IEC 61730-1:2018; EN IEC 61730-1:2018/AC:2018-06  
EN IEC 61730-2:2018; EN IEC 61730-2:2018/AC:2018-06

This Certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.



Certification Body  
Specialist Manager Consumer Products

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Email: prodcert@tuev-nord.de

**Description of product(s):**

Module types:

**Double Glass PV Modules with 7" Half Cut Mono-crystalline Silicon Solar Cells:**

144 cells: LP182\*182-M-72-MB-\*\*\*W (\*\*\*) = 520-550, in increment of 5)

132 cells: LP182\*182-M-66-MB-\*\*\*W (\*\*\*) = 475-505, in increment of 5)

120 cells: LP182\*182-M-60-MB-\*\*\*W (\*\*\*) = 435-455, in increment of 5)

108 cells: LP182\*182-M-54-MB-\*\*\*W (\*\*\*) = 390-410, in increment of 5)

Module types:

**Double Glass PV Modules with 8" Half Cut Mono-crystalline Silicon Solar Cells:**

132 cells: LP210\*210-M-66-MB-\*\*\*W (\*\*\*) = 630-670, in increment of 5)

120 cells: LP210\*210-M-60-MB-\*\*\*W (\*\*\*) = 575-610, in increment of 5)

108 cells: LP210\*210-M-54-MB-\*\*\*W (\*\*\*) = 515-545, in increment of 5)

96 cells: LP210\*210-M-48-MB-\*\*\*W (\*\*\*) = 460-485, in increment of 5)

84 cells: LP210\*210-M-42-MB-\*\*\*W (\*\*\*) = 400-425, in increment of 5)

110 cells: LP210\*210-M-55-MB-\*\*\*W (\*\*\*) = 520-555, in increment of 5)

100 cells: LP210\*210-M-50-MB-\*\*\*W (\*\*\*) = 475-505, in increment of 5)

90 cells: LP210\*210-M-45-MB-\*\*\*W (\*\*\*) = 425-455, in increment of 5)

80 cells: LP210\*210-M-40-MB-\*\*\*W (\*\*\*) = 380-400, in increment of 5)

Module types:

**Double Glass PV Modules with half-cut 7" n-type TOPCon Bifacial Mono Solar Cells:**

156 cells: LP182\*182-M-78-NB-\*\*\*W (\*\*\*) = 580-625, in increment of 5)

144 cells: LP182\*182-M-72-NB-\*\*\*W (\*\*\*) = 555-605, in increment of 5)

132 cells: LP182\*182-M-66-NB-\*\*\*W (\*\*\*) = 510-555, in increment of 5)

120 cells: LP182\*182-M-60-NB-\*\*\*W (\*\*\*) = 460-505, in increment of 5)

108 cells: LP182\*182-M-54-NB-\*\*\*W (\*\*\*) = 410-450, in increment of 5)



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Module types:

**Double Glass PV Modules with half-cut 8" n-type TOPCon Bifacial Mono Solar Cells:**

132 cells: LP210\*210-M-66-NB-\*\*\*W (\*\*\*) = 675-705, in increment of 5)

120 cells: LP210\*210-M-60-NB-\*\*\*W (\*\*\*) = 615-640, in increment of 5)

108 cells: LP210\*210-M-54-NB-\*\*\*W (\*\*\*) = 555-575, in increment of 5)

96 cells: LP210\*210-M-48-NB-\*\*\*W (\*\*\*) = 490-510, in increment of 5)

84 cells: LP210\*210-M-42-NB-\*\*\*W (\*\*\*) = 430-445, in increment of 5)



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