

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**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 mentioned below with the mark as illustrated:

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

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

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

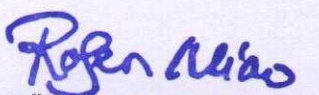
**PV Modules with 8" Half Cut Mono-crystalline Silicon Solar Cells**



Valid from: 2021-09-23

Valid until: 2024-12-12

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	P12.4-AA-02 Rev. 00 (IEC TS 62804-1:2015 modified)
Remark:	Test temperature: 85°C; Relative humidity: 85%; Test duration: 96 hours.
Registered No.:	44 780 19 406749 - 404R3A1M3
Manufacturer:	see Annex 1
Test Report No.:	492011339.004
File No.:	PVP05016/21P-02

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



Essen, 2021-09-23

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 19 406749 - 404R3A1M3

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Aktenzeichen: / File reference: PVP05016/21P-02

2021-09-23

**Manufacturer:**

Manufacturer:

**Lepton Solar (Changshu) Co., Ltd.**

No. 9, Sunshine Avenue, Yushan High Technology Industry Zone,  
Changshu City

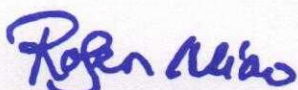
Jiangsu Province, 215500, P.R. China

Factory inspection report no.:

862010379.004

**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" Half Cut Mono-crystalline Silicon Solar Cells:**  
144 cells: LP158\*158-M-72-H-\*\*\*W (\*\*\*) = 365-400, 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 or 20A

Application class: Class A

Electrical protection class: Class II

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

Application class: Class A

Electrical protection class: Class II

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 (\*\*\*) = 515-555, in increment of 5)  
132 cells: LP182\*182-M-66-MH-\*\*\*W (\*\*\*) = 475-510, in increment of 5)  
120 cells: LP182\*182-M-60-MH-\*\*\*W (\*\*\*) = 430-465, in increment of 5)  
108 cells: LP182\*182-M-54-MH-\*\*\*W (\*\*\*) = 390-415, in increment of 5)

Maximum system voltage: 1500V

Fuse rating: 25A

Application class: Class A

Electrical protection class: Class II

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)

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

Application class: Class A

Electrical protection class: Class II

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



TÜV NORD CERT GmbH  
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# 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: 2028-07-30

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	P12.4-AA-02 Rev. 00 (IEC TS 62804-1:2015 modified)
Remark:	Test temperature: 85°C; Relative humidity: 85%; Test duration: 96 hours.
Registered No.:	44 780 23 406749 - 235R1M1
Manufacturer:	see Annex 1
Test Report No.:	492012603.002
File No.:	PVP04137/23P-08



**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 - 235R1M1

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Aktenzeichen: / File reference: PVP04137/23P-08

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: **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)

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

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)

Maximum system voltage: 1500V  
Fuse rating: 30A or 35A  
Application class: Class A  
Electrical protection class: Class II



**TÜV NORD CERT GmbH**  
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Consumer Products

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)


Maximum system voltage: 1500V  
Fuse rating: 25A or 30A  
Application class: Class A  
Electrical protection class: Class II

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)

Maximum system voltage: 1500V  
Fuse rating: 30A or 35A  
Application class: Class A  
Electrical protection class: Class II

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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