

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**Lepton Solar (Changshu) Co., Ltd.**  
No.55 Sunshine Avenue, Yushan High-tech Industrial Park  
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" Mono-crystalline Silicon Solar Cells**

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

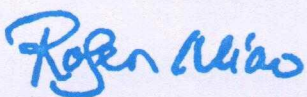
**PV Modules with 7" Half Cut Mono-crystalline Silicon Solar Cells**



Valid from: 2021-03-31  
Valid until: 2023-05-09

Tested according to: 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 19 406749 - 228R3M11  
Manufacturer: see Annex 1  
Test Report No.: 492011007.014  
File No.: PVP02034/21P



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Essen, 2021-03-31

Please also pay attention to the information stated overleaf.



Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 19 406749 - 228R3M11

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Aktenzeichen: / File reference: PVP02034/21P

2021-03-31

**Manufacturer:**

Manufacturer: **Leapton Solar (Changshu) Co., Ltd.**  
No.55 Sunshine Avenue, Yushan High-tech Industrial Park,  
Changshu City, Jiangsu Province, 215500, P.R. China

Factory inspection report no.: 862010379.003

**Remark:**

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

A handwritten signature in blue ink, appearing to read "Rofen Miao". The signature is written in a cursive, flowing style.

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**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):

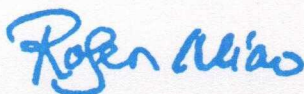
3600Pa (positive) / 1600Pa (negative)

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 or 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: **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 or 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)



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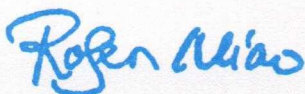


Module types:	<b>PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells:</b> 144 cells: LP166*166-M-72-MH-***W (***) = 420-455, in increment of 5) 132 cells: LP166*166-M-66-MH-***W (***) = 385-415, in increment of 5) 120 cells: LP166*166-M-60-MH-***W (***) = 350-380, in increment of 5)
Maximum 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 (***) = 515-555, 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
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)

Remark:

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



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