

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

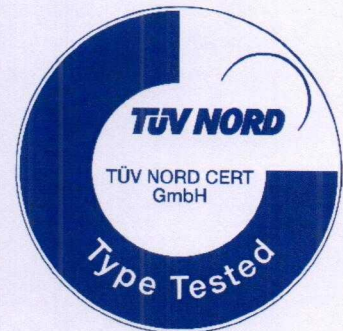
is authorized to provide the product mentioned below with the mark as illustrated:

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

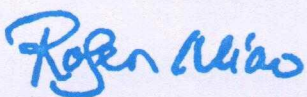
PV Modules with 7" Half Cut Mono-crystalline Silicon Solar Cells



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



TÜV NORD CERT GmbH
Certification Body
Consumer Products



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 "Robert Miao".

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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):

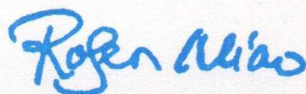
3600Pa (positive) / 1600Pa (negative)

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)



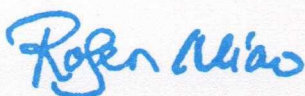
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Module types:	PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells: 144 cells: LP166*166-M-72-MH-***W (***) = 420-455, in increment of 5) 132 cells: LP166*166-M-66-MH-***W (***) = 385-415, in increment of 5) 120 cells: LP166*166-M-60-MH-***W (***) = 350-380, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
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 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
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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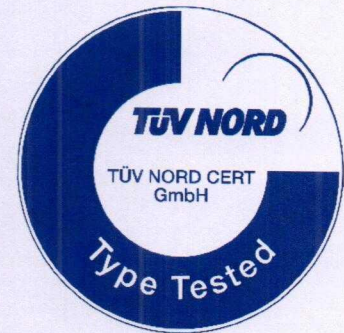
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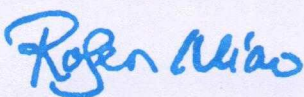


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Lepton Solar (Changshu) Co., Ltd.

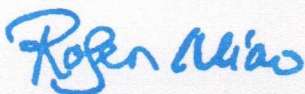
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Module types:	PV Modules with 6" Poly-crystalline Silicon Solar Cells 72 cells: LP156*156-P-72-***W (***) = 310-340, in increment of 5) 60 cells: LP156*156-P-60-***W (***) = 260-280, in increment of 5) 54 cells: LP156*156-P-54-***W (***) = 235-255, in increment of 5) 48 cells: LP156*156-P-48-***W (***) = 205-225, in increment of 5) 42 cells: LP156*156-P-42-***W (***) = 180-195, in increment of 5) 36 cells: LP156*156-P-36-***W (***) = 155-170, in increment of 5) 30 cells: LP156*156-P-30-***W (***) = 130-140, 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" Half Cut Poly-crystalline Silicon Solar Cells 144 cells: LP156*156-P-72-H-***W (***) = 335-370, in increment of 5) 120 cells: LP156*156-P-60-H-***W (***) = 280-305, 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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