

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:

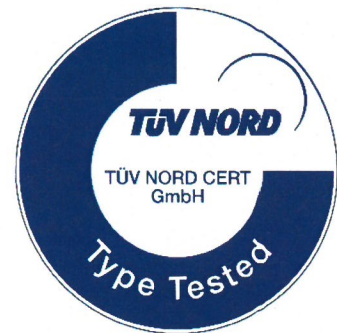
Description of product (details see Annex 2):

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

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



Valid from: 2021-09-16

Valid until: 2023-05-09

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 19 406749 - 228R4A1M13
Manufacturer:	see Annex 1
Test Report No.:	492011007.016
File No.:	PVP05016/21P-01



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Certification Body
Consumer Products



Essen, 2021-09-16

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 19 406749 - 228R4A1M13

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Aktenzeichen: / File reference: PVP05016/21P-01

2021-09-16

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.



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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)

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)



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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
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.