

# 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: 2023-03-13

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 19 406749 - 228R6A1M17
Manufacturer:	see Annex 1
Test Report No.:	492011007.020
File No.:	PVP09020/22P-03



Essen, 2023-03-13



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Consumer Products

Please also pay attention to the information stated overleaf.

**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.: 862010379.005

**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:	<b>PV Modules with 6" Mono-crystalline Silicon Solar Cells:</b> 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:	<b>PV Modules with 6" Mono-crystalline Silicon Solar Cells:</b> 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:	<b>PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells:</b> 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:	<b>PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells:</b> 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 (***) = 515-570, 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 or 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)



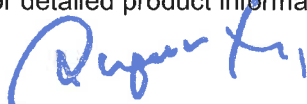
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Module types:	<b>PV Modules with 8" Half Cut Mono-crystalline Silicon Solar Cells:</b> 132 cells: LP210*210-M-66-MH-***W (***) = 630-670, in increment of 5) 120 cells: LP210*210-M-60-MH-***W (***) = 575-610, in increment of 5) 108 cells: LP210*210-M-54-MH-***W (***) = 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 or 35A
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 (***) = 555-575, in increment of 5) 132 cells: LP182*182-M-66-NH-***W (***) = 510-525, in increment of 5) 120 cells: LP182*182-M-60-NH-***W (***) = 460-480, in increment of 5) 108 cells: LP182*182-M-54-NH-***W (***) = 410-430, 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 (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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