

CERTIFICATE

TÜV NORD CERT GmbH

herewith declares that

LEDVANCE GmbH

Parkring 1-5 85748 Garching
Germany

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: 2023-10-27
Valid until: 2026-04-27

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 23 406749 - 387
Manufacturer:	see Annex 1
Test Report No.:	492012774.001
File No.:	PVP09158/23P-05



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Certification Body
Consumer Products

Essen, 2023-10-27



Please also pay attention to the information stated overleaf.

Manufacturer:

Manufacturer 1: **Solarspace Technology (Xuzhou) Co., Ltd.**
South Side of Kunming Road, Economic Development Zone, Peixian,
Jiangsu, China

Factory inspection report no.: 862010539.003

Manufacturer 2: **Solarspace Technology (Suqian) Co., Ltd.**
No. 1299, Shanghai Road, Suqian Economic and Technological
Development Zone, Suqian, Jiangsu, China

Factory inspection report no.: 862010603.002

Manufacturer 3: **L-Q NEW ENERGY CO., LTD.**
U B E Snoul SEZ, No.1, Plot H1, Trapaing Srer Village, Pi Thnou
Commune, Snoul District, Kratie Province, Kingdom of Cambodia

Factory inspection report no.: 862010785.001

Manufacturer 4: **Taoistic Solar Technology (changzhou) Co., Ltd.**
No. 269 Longxi Avenue, Zhulin Town, Jintan District, Changzhou City,
Jiangsu Province, China

Factory inspection report no.: 862010816.001

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:	Single Glass PV Modules with Half-cut 6" Mono-crystalline Silicon Solar Cells: 144 cells: MxxxP72EM-SF/BF-F7 (xxx = 430 - 455, increments of 5) 144 cells: MxxxP72EM-BB-F7 (xxx = 430 - 455, increments of 5) 144 cells: MxxxP72ES-SF/BF-F7 (xxx = 430 - 455, increments of 5) 120 cells: MxxxP60EM-SF/BF-F7 (xxx= 360 - 380, increments of 5) 120 cells: MxxxP60EM-BB-F7 (xxx= 360 - 380, increments of 5) 120 cells: MxxxP60ES-SF/BF-F7 (xxx= 360 - 380, increments of 5) Remark: xxx indicates output power from the front side only.
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:

Single Glass PV Modules with Half-cut 7" Mono-crystalline Silicon Solar Cells:

144 cells: MxxxP72LM-SF/BF-F7 (xxx= 525 - 565, increments of 5)

144 cells: MxxxP72LM-BB-F7 (xxx= 525 - 565, increments of 5)

144 cells: MxxxP72LS-SF/BF-F7 (xxx= 525 - 565, increments of 5)

132 cells: MxxxP66LM-SF/BF-F7 (xxx= 485 - 515, increments of 5)

132 cells: MxxxP66LM-BB-F7 (xxx= 485 - 515, increments of 5)

132 cells: MxxxP66LS-SF/BF-F7 (xxx= 485 - 515, increments of 5)

120 cells: MxxxP60LM-SF/BF-F7 (xxx= 440 - 470, increments of 5)

120 cells: MxxxP60LM-BB-F7 (xxx= 440 - 470, increments of 5)

120 cells: MxxxP60LS-SF/BF-F7 (xxx= 440 - 470, increments of 5)

108 cells: MxxxP54LM-SF/BF-F7 (xxx= 395 - 420, increments of 5)

108 cells: MxxxP54LM-BB-F7 (xxx= 395 - 420, increments of 5)

108 cells: MxxxP54LS-SF/BF-F7 (xxx= 395 - 420, increments of 5)

96 cells: MxxxP48LM-SF/BF-F7 (xxx= 355 - 370, increments of 5)

96 cells: MxxxP48LM-BB-F7 (xxx= 355 - 370, increments of 5)

96 cells: MxxxP48LS-SF/BF-F7 (xxx= 355 - 370, increments of 5)

72 cells: MxxxP36LM-SF/BF-F7 (xxx= 265 - 280, increments of 5)

72 cells: MxxxP36LM-BB-F7 (xxx= 265 - 280, increments of 5)

72 cells: MxxxP36LS-SF/BF-F7 (xxx= 265 - 280, increments of 5)

Remark: xxx indicates output power from the front side only.

Maximum system voltage:	1500V
Fuse rating:	25A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:	Single Glass PV Modules with Half-cut 8" Mono-crystalline Silicon Solar Cells: 132 cells: MxxxP66UM-SF/BF-F7 (xxx= 650 - 670, increments of 5) 132 cells: MxxxP66UM-BB-F7 (xxx= 650 - 670, increments of 5) 132 cells: MxxxP66US-SF/BF-F7 (xxx= 650 - 670, increments of 5) 120 cells: MxxxP60UM-SF/BF-F7 (xxx= 590 - 610, increments of 5) 120 cells: MxxxP60UM-BB-F7 (xxx= 590 - 610, increments of 5) 120 cells: MxxxP60US-SF/BF-F7 (xxx= 590 - 610, increments of 5) Remark: xxx indicates output power from the front side only.
Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:	Single Glass PV Modules with Half-cut 7" TOPCon Mono-crystalline Silicon Solar Cells: 156 cells: MxxxN78LM-SF/BF/BB-F7 (xxx= 585 - 615, increments of 5) 144 cells: MxxxN72LM-SF/BF/BB-F7 (xxx= 540 - 600, increments of 5) 132 cells: MxxxN66LM-SF/BF/BB-F7 (xxx= 495 - 550, increments of 5) 120 cells: MxxxN60LM-SF/BF/BB-F7 (xxx= 450 - 500, increments of 5) 108 cells: MxxxN54LM-SF/BF/BB-F7 (xxx= 405 - 450, increments of 5) 96 cells: MxxxN48LM-SF/BF/BB-F7 (xxx= 360 - 400, increments of 5) 72 cells: MxxxN36LM-SF/BF/BB-F7 (xxx= 270 - 300, increments of 5) Remark: xxx indicates output power from the front side only.
Maximum system voltage:	1500V
Fuse rating:	25A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as 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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