CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Leapton 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: 2024-07-12
Valid until: 2029-07-11

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	P12.4-AA-02 Rev. 00 (IEC TS 62804-1:2015 modified)
Remark:	Test temperature: 85°C; Relative humidity: 85%; Test duration: 96 hours.
Registered No.:	44 780 19 406749 - 404R4A1M5
Manufacturer and factory(-ies):	See Annex 1
Test Report No.:	492011339.005
File No.:	PVP01197/24P-01

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Certification Body
Consumer Products

Essen, 2024-07-12

Please also pay attention to the information stated overleaf.

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Manufacturer and factory(-ies):

Manufacturer:	**Leapton Solar (Changshu) Co., Ltd.** No. 9, Sunshine Avenue, Yushan High Technology Industry Zone, Changshu City Jiangsu Province, 215500, P.R. China
Factory:	**Leapton 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.:	862010379.007

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" Half Cut Mono-crystalline Silicon Solar Cells:** 144 cells: LP158*158-M-72-H-***W (*** = 365-400, 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
Application class:	Class A
Electrical protection class:	Class II

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
Application class:	Class A
Electrical protection class:	Class II

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
Application class:	Class A
Electrical protection class:	Class II

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Module types:	**PV Modules with Half-cut 210*210mm 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
Application class:	Class A
Electrical protection class:	Class II

Module types:	**PV Modules with Half-cut 182*182/188mm n-type TOPCon Bifacial Silicon Solar Cells:** 156 cells: LP182*182-M-78-NH-***W (*** = 580-625, in increment of 5) 144 cells: LP182*182-M-72-NH-***W (*** = 555-600, in increment of 5) 132 cells: LP182*182-M-66-NH-***W (*** = 510-550, in increment of 5) 120 cells: LP182*182-M-60-NH-***W (*** = 460-500, in increment of 5) 108 cells: LP182*182-M-54-NH-***W (*** = 410-450, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	25A
Application class:	Class A
Electrical protection class:	Class II

Module types:	**PV Modules with Half-cut 182*210mm n-type TOPCon Bifacial Silicon Solar Cells:** 132 cells: LP182*210-M-66-NH-***W (*** = 580-635, in increment of 5) 120 cells: LP182*210-M-60-NH-***W (*** = 530-575, in increment of 5) 108 cells: LP182*210-M-54-NH-***W (*** = 475-520, in increment of 5) 96 cells: LP182*210-M-48-NH-***W (*** = 420-460, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	25A
Application class:	Class A

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Electrical protection class:	Class II
Module types:	**PV Modules with Half-cut 182*199/191mm n-type TOPCon Bifacial Silicon Solar Cells:** 144 cells: LP182*199-M-72-NH-***W (*** = 570-655, in increment of 5) 132 cells: LP182*199-M-66-NH-***W (*** = 525-600, in increment of 5) 120 cells: LP182*199-M-60-NH-***W (*** = 475-545, in increment of 5) 108 cells: LP182*199-M-54-NH-***W (*** = 430-490, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	25A
Application class:	Class A
Electrical protection class:	Class II

Module types:	**PV Modules with Half-cut 210*210mm n-type TOPCon Bifacial Silicon Solar Cells:** 132 cells: LP210*210-M-66-NH-***W (*** = 675-700, in increment of 5) 120 cells: LP210*210-M-60-NH-***W (*** = 615-635, in increment of 5) 108 cells: LP210*210-M-54-NH-***W (*** = 555-570, in increment of 5) 96 cells: LP210*210-M-48-NH-***W (*** = 490-510, in increment of 5) 84 cells: LP210*210-M-42-NH-***W (*** = 430-445, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Application class:	Class A
Electrical protection class:	Class II

Remark:
For detailed product information, please refer to CDF (Constructional Data Form).

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herewith declares that

Leapton 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: 2024-09-06
Valid until: 2028-07-30

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	P12.4-AA-02 Rev. 00 (IEC TS 62804-1:2015 modified)
Remark:	Test temperature: 85°C; Relative humidity: 85%; Test duration: 96 hours.
Registered No.:	44 780 23 406749 - 235R2M2
Manufacturer and factory(-ies):	See Annex 1
Test Report No.:	492012603.003
File No.:	PVP08123/24P-04

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Essen,2024-09-06

Please also pay attention to the information stated overleaf.

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Manufacturer and factory(-ies):

Manufacturer:	**Leapton Solar (Changshu) Co., Ltd.** No. 9, Sunshine Avenue, Yushan High Technology Industry Zone, Changshu City Jiangsu Province, 215500, P.R. China
Factory :	**Leapton 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.:	862010379.007

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:	**Double Glass PV Modules with 7" Half Cut Mono-crystalline Silicon Solar Cells:** 144 cells: LP182*182-M-72-MB-***W (*** = 520-550, in increment of 5) 132 cells: LP182*182-M-66-MB-***W (*** = 475-505, in increment of 5) 120 cells: LP182*182-M-60-MB-***W (*** = 435-455, in increment of 5) 108 cells: LP182*182-M-54-MB-***W (*** = 390-410, in increment of 5)
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	25A
Electrical protection class:	Class II

Module types:	**Double Glass PV Modules with 8" Half Cut Mono-crystalline Silicon Solar Cells:** 132 cells: LP210*210-M-66-MB-***W (*** = 630-670, in increment of 5) 120 cells: LP210*210-M-60-MB-***W (*** = 575-610, in increment of 5) 108 cells: LP210*210-M-54-MB-***W (*** = 515-545, in increment of 5) 96 cells: LP210*210-M-48-MB-***W (*** = 460-485, in increment of 5) 84 cells: LP210*210-M-42-MB-***W (*** = 400-425, in increment of 5) 110 cells: LP210*210-M-55-MB-***W (*** = 520-555, in increment of 5) 100 cells: LP210*210-M-50-MB-***W (*** = 475-505, in increment of 5) 90 cells: LP210*210-M-45-MB-***W (*** = 425-455, in increment of 5) 80 cells: LP210*210-M-40-MB-***W (*** = 380-400, in increment of 5)
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II

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Module types:	**Double Glass PV Modules with Half-cut 210*210mm n-type TOPCon Bifacial Silicon Solar Cells:** 132 cells: LP210*210-M-66-NB-***W (*** = 665-730, in increment of 5) 120 cells: LP210*210-M-60-NB-***W (*** = 610-665, in increment of 5) 108 cells: LP210*210-M-54-NB-***W (*** = 550-595, in increment of 5) 96 cells: LP210*210-M-48-NB-***W (*** = 490-530, in increment of 5) 84 cells: LP210*210-M-42-NB-***W (*** = 430-465, in increment of 5)
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II

Module types:	**Double Glass PV Modules with Half-cut 182*210mm n-type TOPCon Bifacial Silicon Solar Cells:** 132 cells: LP182*210-M-66-NB-***W (*** = 580-630, in increment of 5) 120 cells: LP182*210-M-60-NB-***W (*** = 530-570, in increment of 5) 108 cells: LP182*210-M-54-NB-***W (*** = 475-515, in increment of 5) 96 cells: LP182*210-M-48-NB-***W (*** = 420-455, in increment of 5)
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	25A
Electrical protection class:	Class II

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Module types:	**Double Glass PV Modules with Half-cut 182*182/188mm n-type TOPCon Bifacial Silicon Solar Cells:** 156 cells: LP182*182-M-78-NB-***W (*** = 580-620, in increment of 5) 144 cells: LP182*182-M-72-NB-***W (*** = 535-600, in increment of 5) 132 cells: LP182*182-M-66-NB-***W (*** = 490-550, in increment of 5) 120 cells: LP182*182-M-60-NB-***W (*** = 445-500, in increment of 5) 108 cells: LP182*182-M-54-NB-***W (*** = 400-450, in increment of 5)
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	25A
Electrical protection class:	Class II

Module types:	**Double Glass PV Modules with Half-cut 182*199/191mm n-type TOPCon Bifacial Silicon Solar Cells:** 144 cells: LP182*199-M-72-NB-***W (*** = 570-655, in increment of 5) 132 cells: LP182*199-M-66-NB-***W (*** = 525-600, in increment of 5) 120 cells: LP182*199-M-60-NB-***W (*** = 475-545, in increment of 5) 108 cells: LP182*199-M-54-NB-***W (*** = 430-490, in increment of 5)
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	25A
Electrical protection class:	Class II

Remark:
For detailed product information, please refer to CDF (Constructional Data Form).

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