

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Lepton Energy Co., Ltd.
Tousei Bld.6F,1-2-1,Aioicho,Chuo-ku Kobe-shi,Hyogo,Japan

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: 2024-07-29

Valid until: 2029-07-10

| | |
|---------------------------------|---|
| Certification program: | P12-VA-01 Rev. 17 09.20 |
| Certification fundamental(s): | IEC 61215-1:2021 / EN IEC 61215-1:2021; IEC 61215-1-1:2021 / EN IEC 61215-1-1:2021; IEC 61215-2:2021 / EN IEC 61215-2:2021; IEC 61730-1:2023; IEC 61730-2:2023. |
| Registered No.: | 44 780 24 406749 - 299 |
| Manufacturer and factory(-ies): | See Annex 1 |
| Test Report No.: | 492013317.001 |
| File No.: | PVP05178/24P-03 |



TÜV NORD CERT GmbH
Certification Body
Consumer Products



Essen, 2024-07-29

Please also pay attention to the information stated overleaf.

Manufacturer and factory(-ies):

Manufacturer: **Lepton Energy Co., Ltd.**
Tousei Bld.6F, 1-2-1, Aioicho, Chuo-ku Kobe-shi, Hyogo, Japan

Factory: **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.: 862010379.007

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Description of product(s):

| | |
|---|--|
| Module types: | PV Modules with Half-cut 210*210mm Mono-crystalline Silicon Solar Cells: 132 cells: LP210*210-M-66-MH-***W (***) = 630-665, in increment of 5) 120 cells: LP210*210-M-60-MH-***W (***) = 575-605, 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 (***) = 460-480, in increment of 5) 84 cells: LP210*210-M-42-MH-***W (***) = 400-420, in increment of 5) |
| Maximum system voltage: | 1500V |
| Maximum overcurrent protection rating: | 30A |
| Electrical protection class: | Class II |
| Pollution degree: | 1 |
| 98th percentile module operating temperature (T ₉₈) | 70°C |
| 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) |
| 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 |
| Maximum overcurrent protection rating: | 25A |
| Electrical protection class: | Class II |
| Pollution degree: | 1 |
| 98th percentile module operating temperature (T ₉₈) | 70°C |
| 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) |



TÜV NORD CERT GmbH
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Consumer Products

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|---|--|
| 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 |
| Maximum overcurrent protection rating: | 25A |
| Electrical protection class: | Class II |
| Pollution degree: | 1 |
| 98th percentile module operating temperature (T ₉₈) | 70°C |
| 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) |

| | |
|---|---|
| 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 |
| Maximum overcurrent protection rating: | 25A |
| Electrical protection class: | Class II |
| Pollution degree: | 1 |
| 98th percentile module operating temperature (T ₉₈) | 70°C |
| 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) |



TÜV NORD CERT GmbH
Certification Body
Consumer Products

| | |
|---|--|
| 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 |
| Maximum overcurrent protection rating: | 30A |
| Electrical protection class: | Class II |
| Pollution degree: | 1 |
| 98th percentile module operating temperature (T ₉₈) | 70°C |
| 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) attached to test report with same file no.



TÜV NORD CERT GmbH
Certification Body
Consumer Products

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Lepton Energy Co., Ltd.
Tousei Bld.6F,1-2-1,Aioicho,Chuo-ku Kobe-shi,Hyogo,Japan

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: 2024-07-29

Valid until: 2029-06-25

| | |
|---------------------------------|---|
| Certification program: | P12-VA-01 Rev. 17 09.20 |
| Certification fundamental(s): | IEC 61215-1:2021 / EN IEC 61215-1:2021; IEC 61215-1-1:2021 / EN IEC 61215-1-1:2021; IEC 61215-2:2021 / EN IEC 61215-2:2021; IEC 61730-1:2023; IEC 61730-2:2023. |
| Registered No.: | 44 780 24 406749 - 300 |
| Manufacturer and factory(-ies): | See Annex 1 |
| Test Report No.: | 492013318.001 |
| File No.: | PVP05178/24P-04 |



TÜV NORD CERT GmbH
Certification Body
Consumer Products



Essen, 2024-07-29

Please also pay attention to the information stated overleaf.

Manufacturer and factory(-ies):

Manufacturer: **Leapton Energy Co., Ltd.**
Tousei Bld.6F, 1-2-1, Aioicho, Chuo-ku Kobe-shi, Hyogo, Japan

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.



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Description of product(s):

| | |
|---|---|
| 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) *** indicates rated output power generated from front side under STC |
| Maximum system voltage: | 1500V |
| Maximum overcurrent protection rating: | 30A |
| Electrical protection class: | Class II |
| Pollution degree: | 1 |
| 98th percentile module operating temperature (T ₉₈) | 70°C |
| Design load (positive / negative): | 3600Pa / 1600Pa |
| Safety factors: | 1.5 |
| Fire safety class: | Class A according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018) |

| | |
|---|---|
| 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) *** indicates rated output power generated from front side under STC |
| Maximum system voltage: | 1500V |
| Maximum overcurrent protection rating: | 25A |
| Electrical protection class: | Class II |
| Pollution degree: | 1 |
| 98th percentile module operating temperature (T ₉₈) | 70°C |
| Design load (positive / negative): | 3600Pa / 1600Pa |



TÜV NORD CERT GmbH
Certification Body
Consumer Products

| | |
|---|--|
| Safety factors: | 1.5 |
| Fire safety class: | Class A according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018) |
| 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) *** indicates rated output power generated from front side under STC |
| Maximum system voltage: | 1500V |
| Maximum overcurrent protection rating: | 25A |
| Electrical protection class: | Class II |
| Pollution degree: | 1 |
| 98th percentile module operating temperature (T ₉₈) | 70°C |
| Design load (positive / negative): | 3600Pa / 1600Pa |
| Safety factors: | 1.5 |
| Fire safety class: | Class A according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018) |
| 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) *** indicates rated output power generated from front side under STC |
| Maximum system voltage: | 1500V |
| Maximum overcurrent protection rating: | 25A |
| Electrical protection class: | Class II |
| Pollution degree: | 1 |
| 98th percentile module operating temperature (T ₉₈) | 70°C |
| Design load (positive / negative): | 3600Pa / 1600Pa |
| Safety factors: | 1.5 |



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Fire safety class: Class A according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) attached to test report with same file no.

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Leapton Energy Co., Ltd.
Tousei Bld.6F, 1-2-1, Aioicho, Chuo-ku Kobe-shi, Hyogo
Japan

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: 2023-08-30
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 - 258R7A1M7 |
| Manufacturer: | see Annex 1 |
| Test Report No.: | 492011073.009 |
| File No.: | PVP08067/23P-02 |



TÜV NORD CERT GmbH
Certification Body
Consumer Products



Essen, 2023-08-30

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 19 406749 - 258R7A1M7

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Aktenzeichen: / File reference: PVP08067/23P-02

2023-08-30

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.:

862010379.006

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.



TÜV NORD CERT GmbH
Certification Body
Consumer Products

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)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

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
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
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)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

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 (***) = 515-570, 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
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)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

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)

Module types:

PV Modules with half-cut 7" n-type TOPCon Bifacial Mono 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
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)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

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|------------------------------------|--|
| Module types: | PV Modules with half-cut 8" n-type Topcon Bifacial Mono Solar Cells: 132 cells: LP210*210-M-66-NH-***W (***) = 675-705, in increment of 5) 120 cells: LP210*210-M-60-NH-***W (***) = 615-640, in increment of 5) 108 cells: LP210*210-M-54-NH-***W (***) = 555-575, 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 |
| 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.



TÜV NORD CERT GmbH
Certification Body
Consumer Products

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Lepton Energy Co., Ltd.
Tousei Bld.6F, 1-2-1, Aioicho, Chuo-ku Kobe-shi, Hyogo
Japan

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: 2023-08-30

Valid until: 2026-08-02

| | |
|-------------------------------|---|
| 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 21 406749 - 175R1M1 |
| Manufacturer: | see Annex 1 |
| Test Report No.: | 492011786.002 |
| File No.: | PVP08067/23P-03 |



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Essen, 2023-08-30

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 21 406749 - 175R1M1

Seite / Page 1 von / of 1

Aktenzeichen: / File reference: PVP08067/23P-03

2023-08-30

Manufacturer:

Manufacturer:

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.:

862010379.006

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.



TÜV NORD CERT GmbH
Certification Body
Consumer Products

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 |
| 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: | 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 |
| Fuse rating: | 30A or 35A |
| 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: | Double Glass PV Modules with half-cut 7" n-type TOPCon Bifacial Mono Solar Cells: 156 cells: LP182*182-M-78-NB-***W (***) = 580-625, in increment of 5) 144 cells: LP182*182-M-72-NB-***W (***) = 555-605, in increment of 5) 132 cells: LP182*182-M-66-NB-***W (***) = 510-555, in increment of 5) 120 cells: LP182*182-M-60-NB-***W (***) = 460-505, in increment of 5) 108 cells: LP182*182-M-54-NB-***W (***) = 410-450, 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 / 1600Pa |
| Safety factors: | 1.5 |
| Fire safety class: | Class A according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018) |

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|------------------------------------|---|
| Module types: | Double Glass PV Modules with half-cut 8" n-type TOPCon Bifacial Mono Solar Cells: 132 cells: LP210*210-M-66-NB-***W (***) = 675-705, in increment of 5) 120 cells: LP210*210-M-60-NB-***W (***) = 615-640, in increment of 5) 108 cells: LP210*210-M-54-NB-***W (***) = 555-575, in increment of 5) 96 cells: LP210*210-M-48-NB-***W (***) = 490-510, in increment of 5) 84 cells: LP210*210-M-42-NB-***W (***) = 430-445, in increment of 5) |
| Maximum system voltage: | 1500V |
| Fuse rating: | 30A or 35A |
| 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 A 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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