

To / 致:

Company / 公司: Tongwei Solar (Hefei) Co., Ltd.

Contact / 联系人: Mr. Wei Yang

Email / 邮箱: YANGW012@tongwei.com

From / 自:

Company / 公司:

Contact / 联系人:

Email / 邮箱:

TÜV NORD (HANGZHOU)
CO., LTD. / 杭州汉德质量认证
服务有限公司

Ms. Miley Li / 李文颖 小姐

wli@tuv-nord.com

Subject: Announcement of cancellation

主题: 证书取消通知

File No.: PVP01045/23P-02

项目号:

License holder: **Tongwei Solar (Hefei) Co., Ltd.**持证人: No.888, Changning Road, High-tech District,
Hefei City, Anhui Province, 230088, P.R. China

Certificate No.: 44 780 18 406749 - 343R11A1M16

证书号:

Product: Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

产品: 晶硅光伏组件

Herewith it is declared, that the above noted certificate(s) has (have) been invalidated since 2023-03-01.
特此声明, 上述证书自 2023 年 3 月 1 日起失效。

The cancellation is due to:

取消原因:

 License holder applied for cancellation.

持证人申请取消。

 New certificate(s) (no: 44 780 18 406749 - 343R12A1M16) has (have) been issued to replace the cancelled one(s).新证书(证书号: 44 780 18 406749 - 343R12A1M16) 签发, 取代旧证书。 After the expiry date of the certificate(s), the certificate(s) has (have) not been renewed within 6 months.

证书到期 6 个月内未续证。

 After the expiry date of last factory inspection conclusion, no factory inspection has been conducted or no payment of annual fees has been received within 6 months.

上一厂检结论有效期到期后, 6 个月内未配合厂检或未支付年度费用。

 No payment of annual fees has been received within 6 month after last period of payment of annual fees.

上一证书年费支付期后, 超过 6 个月未支付证书年费。

 Others: _____

其他情况: _____

Please pay attention to stop using the invalid certificate(s) from 2023-03-01. Meanwhile, please send back the original copies of above mentioned certificate(s) to us.

请注意从 2023 年 3 月 1 日开始停止使用无效证书。同时, 请将上述证书原件寄回给我们。

TÜV NORD reserved the right of final explanation about the cancellation of certificate(s). TÜV NORD will not take any responsibility for the circumstance of misusing the invalid certificate(s) by the license holder or the manufacturer.

TÜV NORD 保留对证书取消的最终解释权。TÜV NORD 对证书持有者或制造商滥用无效证书的情况不承担任何责任。

Renewable Energy / 可再生能源

TÜV NORD (Hangzhou) Co., Ltd. / 杭州汉德质量认证服务有限公司

Miley Li / 李文颖 
Technical Support / 技术支持

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Tongwei Solar (Hefei) Co., Ltd.
No.888, Changning Road, High-tech District,
Hefei City, Anhui Province, 230088
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: 2023-03-01

Valid until: 2023-12-03

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 18 406749 - 343R12A1M16
Manufacturer:	see Annex 1
Test Report No.:	492011148.018
File No.:	PVP01043/23P-02



TÜV NORD CERT GmbH
Certification Body
Consumer Products



Essen, 2023-03-01

Please also pay attention to the information stated overleaf.

Manufacturer:

Manufacturer 1:	Tongwei Solar (Hefei) Co., Ltd. No.888, Changning Road, High-tech District, Hefei City, Anhui Province, 230088, P.R. China
Factory inspection report no.:	862010358.006
Manufacturer 2:	Hefei GCL System Integration New Energy Technology Co., Ltd. Southeast Corner of Intersection of Sidingshan Road and Ruquan Road, Hefei Circular Economy Demonstration Park, Feidong County, Hefei City, Anhui Province, P.R. China
Factory inspection report no.:	862010696.001
Manufacturer 3:	Jiangsu Yueyang Photovoltaic Technology Co., Ltd. 777 Tangqiao Road, High-tech Economic Zone, Jianhu County, Yancheng City, 224700 Jiangsu Province, P.R. China.
Factory inspection report no.:	862010688.001
Manufacturer 4:	Tangshan Haitai New Energy Technology Co., Ltd. Yutai Industrial Zone, Yutian, Tangshan City Hebei Province, 064100, P.R. China
Factory inspection report no.:	862010687.001
Manufacturer 5:	SIYANG TALESUN NEW ENERGY TECHNOLOGIES CO., LTD. No.211 Zhongxing East Road, Siyang Economic Development Zone, 223700 Suqian City, Jiangsu, China
Factory inspection report no.:	862010690.001
Manufacturer 6:	Peixian Talesun New Energy Technology Co., Ltd 18 Hanrun Road, Peixian Economic Development Zone, 221600 Xuzhou City, Jiangsu, China
Factory inspection report no.:	862010694.001

Manufacturer 7: **Zibo JinenU Solar Technology Co., LTD.**
3005, Silk Road, Zhoucun District,
Zibo, Shandong China

Factory inspection report no.: 862010689.001

Manufacturer 8: **Jiangsu Huapeng Photovoltaic Technology Co., LTD.**
No. 118, Jingang Road, Yangzhou economic and Technological
Development Zone, 225100 Yangzhou City, Jiangsu Province,
PEOPLE'S REPUBLIC OF CHINA

Factory inspection report no.: 862010695.001

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:	Double Glass PV Modules with Segmented 6" Mono-crystalline Silicon Solar Cells: 408 cells: THxxxCM5-72SD (xxx = 350-390, in increment of 5) 340 cells: THxxxCM5-60SD (xxx = 290-325, in increment 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):	2400Pa / 2400Pa or 3600Pa / 1600Pa or 3600Pa / 3600Pa or 1600Pa / 1600Pa, refer to CDF for details
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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Certification Body
Consumer Products

Module types:

Double Glass PV Modules with Segmented 6" PERC Monocrystalline Silicon Solar Cells:

408 cells: THxxxPM5-72SD (xxx = 390-410, in increment of 5)

408 cells: THxxxPM5-72SDA (xxx = 410-440, in increment of 5)

408 cells: THxxxPM5-72SDA-F (xxx = 410-440, in increment of 5)

408 cells: THxxxPMB5-72SD (xxx = 390-410, in increment of 5)

408 cells: THxxxPMB5-72SDA (xxx = 410-440, in increment of 5)

408 cells: THxxxPMB5-72SDA-F (xxx = 410-440, in increment of 5)

340 cells: THxxxPM5-60SD (xxx = 325-340, in increment of 5)

340 cells: THxxxPM5-60SDA (xxx = 340-365, in increment of 5)

340 cells: THxxxPM5-60SDA-F (xxx = 340-365, in increment of 5)

340 cells: THxxxPMB5-60SD (xxx = 325-340, in increment of 5)

340 cells: THxxxPMB5-60SDA (xxx = 340-365, in increment of 5)

340 cells: THxxxPMB5-60SDA-F (xxx = 340-365, in increment 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):	2400Pa / 2400Pa or 3600Pa / 1600Pa or 3600Pa / 3600Pa or 1600Pa / 1600Pa, refer to CDF for details
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 Segmented 8" PERC Monocrystalline Silicon Solar Cells 414 cells: THxxxPMB6-69SDC (xxx = 635-670, in increment of 5) 408 cells: THxxxPMB6-68SDC (xxx = 625-660, in increment of 5) 390 cells: THxxxPMB6-65SDC (xxx = 600-630, in increment of 5) 345 cells: THxxxPMB6-58SDC (xxx = 530-555, in increment of 5) 340 cells: THxxxPMB6-57SDC (xxx = 520-550, in increment of 5) 325 cells: THxxxPMB6-54SDC (xxx = 500-525, in increment 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):	2400Pa / 1600Pa or 3600Pa / 1600Pa, refer to CDF for details
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" PERC Mono-crystalline Silicon Solar Cells:

156 cells: TWMPD-78HDxxx (xxx = 570-615, in increment of 5)

156 cells: TWxxxMBAP-156-D (xxx = 575-615, in increment of 5)

156 cells: TWxxxMBGP-156-D (xxx = 570-610, in increment of 5)

144 cells: TWMPD-72HDxxx (xxx = 525-565, in increment of 5)

144 cells: TWxxxMBAP-144-D (xxx = 530-565, in increment of 5)

144 cells: TWxxxMBGP-144-D (xxx = 525-560, in increment of 5)

132 cells: TWMPD-66HDxxx (xxx = 480-520, in increment of 5)

132 cells: TWxxxMBAP-132-D (xxx = 485-520, in increment of 5)

132 cells: TWxxxMBGP-132-D (xxx = 480-515, in increment of 5)

120 cells: TWMPD-60HDxxx (xxx = 440-470, in increment of 5)

120 cells: TWxxxMBAP-120-D (xxx = 440-470, in increment of 5)

120 cells: TWxxxMBGP-120-D (xxx = 440-470, in increment of 5)

108 cells: TWMPD-54HDxxx (xxx = 395-425, in increment of 5)

108 cells: TWxxxMBAP-108-D (xxx = 400-425, in increment of 5)

108 cells: TWxxxMBGP-108-D (xxx = 395-420, in increment of 5)

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

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 C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

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Consumer Products

Module types:

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

156 cells: TWMND-78HDxxx (xxx = 580-630, in increment of 5)

156 cells: TWxxxMBGT-156-D (xxx = 580-630, in increment of 5)

144 cells: TWMND-72HDxxx (xxx = 535-580, in increment of 5)

144 cells: TWxxxMBGT-144-D (xxx = 535-580, in increment of 5)

132 cells: TWMND-66HDxxx (xxx = 490-530, in increment of 5)

132 cells: TWxxxMBGT-132-D (xxx = 490-530, in increment of 5)

120 cells: TWMND-60HDxxx (xxx = 445-485, in increment of 5)

120 cells: TWxxxMBGT-120-D (xxx = 445-485, in increment of 5)

108 cells: TWMND-54HDxxx (xxx = 400-435, in increment of 5)

108 cells: TWxxxMBGT-108-D (xxx = 400-435, in increment of 5)

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

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 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 8" PERC Mono-crystalline Silicon Solar Cells:

132 cells: TWMPF-66HDxxx (xxx = 635-685, in increment of 5)

132 cells: TWxxxMBCP-132-D (xxx = 635-675, in increment of 5)

132 cells: TWxxxMBIP-132-D (xxx = 635-685, in increment of 5)

120 cells: TWMPF-60HDxxx (xxx = 580-620, in increment of 5)

120 cells: TWxxxMBCP-120-D (xxx = 580-610, in increment of 5)

120 cells: TWxxxMBIP-120-D (xxx = 580-620, in increment of 5)

108 cells: TWMPF-54HDxxx (xxx = 520-560, in increment of 5)

108 cells: TWxxxMBCP-108-D (xxx = 520-550, in increment of 5)

108 cells: TWxxxMBIP-108-D (xxx = 520-560, in increment of 5)

110 cells: TWMPF-55HDxxx (xxx = 530-570, in increment of 5)

110 cells: TWxxxMBCP-110-D (xxx = 530-560, in increment of 5)

110 cells: TWxxxMBIP-110-D (xxx = 530-570, in increment of 5)

100 cells: TWMPF-50HDxxx (xxx = 480-515, in increment of 5)

100 cells: TWxxxMBCP-100-D (xxx = 480-510, in increment of 5)

100 cells: TWxxxMBIP-100-D (xxx = 480-515, in increment of 5)

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

Maximum system voltage:

1500V

Fuse rating:

35A or 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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Consumer Products

Module types:	Double Glass PV Modules with Half-cut 8" TOPCon Mono-crystalline Silicon Solar Cells 132 cells: TWMNF-66HDxxx (xxx = 665-690, in increment of 5) 132 cells: TWxxxMBIT-132-D (xxx = 665-690, in increment of 5) 120 cells: TWMNF-60HDxxx (xxx = 605-625, in increment of 5) 120 cells: TWxxxMBIT-120-D (xxx = 605-625, in increment of 5) 108 cells: TWMNF-54HDxxx (xxx = 545-565, in increment of 5) 108 cells: TWxxxMBIT-108-D (xxx = 545-565, in increment of 5) 110 cells: TWMNF-55HDxxx (xxx = 530-570, in increment of 5) 110 cells: TWxxxMBIT-110-D (xxx = 530-570, in increment of 5) 100 cells: TWMNF-50HDxxx (xxx = 480-515, in increment of 5) 100 cells: TWxxxMBIT-100-D (xxx = 480-515, in increment of 5) Remark: xxx indicates output power from the front side only.
Maximum system voltage:	1500V
Fuse rating:	35A or 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)

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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Consumer Products

Certificate of conformity with the following European Directives

Registered No.:
44 799 23 406749 - 041

Low-Voltage Directive 2014/35/EU

Date of application	File reference	Test report No.	Date of issue	Place of issue
2023-01-10	PVP01043/23P-02	492011148.018	2023-03-01	Essen

This is to certify that the following products comply to the essential requirements of the above mentioned European Directive and the following standards, taking into account the German national deviations:

Product: Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

Type designation: See Annex 1

Applicant: **Tongwei Solar (Hefei) Co., Ltd.**
No.888, Changning Road, High-tech District,
Hefei City, Anhui Province, 230088, P.R. China

Standard(s): EN IEC 61730-1:2018; EN IEC 61730-1:2018/AC:2018-06
EN IEC 61730-2:2018; EN IEC 61730-2:2018/AC:2018-06

This Certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.



Certification Body
Specialist Manager Consumer Products

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Fax: +49 (0)201 825-3209
Email: prodcert@tuev-nord.de

Description of product(s):

Module types: **Double Glass PV Modules with Segmented 6" Mono-crystalline Silicon Solar Cells:**

408 cells: THxxxCM5-72SD (xxx = 350-390, in increment of 5)

340 cells: THxxxCM5-60SD (xxx = 290-325, in increment of 5)

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

Module types: **Double Glass PV Modules with Segmented 6" PERC Mono-crystalline Silicon Solar Cells:**

408 cells: THxxxPM5-72SD (xxx = 390-410, in increment of 5)

408 cells: THxxxPM5-72SDA (xxx = 410-440, in increment of 5)

408 cells: THxxxPM5-72SDA-F (xxx = 410-440, in increment of 5)

408 cells: THxxxPMB5-72SD (xxx = 390-410, in increment of 5)

408 cells: THxxxPMB5-72SDA (xxx = 410-440, in increment of 5)

408 cells: THxxxPMB5-72SDA-F (xxx = 410-440, in increment of 5)

340 cells: THxxxPM5-60SD (xxx = 325-340, in increment of 5)

340 cells: THxxxPM5-60SDA (xxx = 340-365, in increment of 5)

340 cells: THxxxPM5-60SDA-F (xxx = 340-365, in increment of 5)

340 cells: THxxxPMB5-60SD (xxx = 325-340, in increment of 5)

340 cells: THxxxPMB5-60SDA (xxx = 340-365, in increment of 5)

340 cells: THxxxPMB5-60SDA-F (xxx = 340-365, in increment of 5)

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

Module types: **Double Glass PV Modules with Segmented 8" PERC Mono-crystalline Silicon Solar Cells:**

414 cells: THxxxPMB6-69SDC (xxx = 635-670, in increment of 5)

408 cells: THxxxPMB6-68SDC (xxx = 625-660, in increment of 5)

390 cells: THxxxPMB6-65SDC (xxx = 600-630, in increment of 5)

345 cells: THxxxPMB6-58SDC (xxx = 530-555, in increment of 5)

340 cells: THxxxPMB6-57SDC (xxx = 520-550, in increment of 5)

325 cells: THxxxPMB6-54SDC (xxx = 500-525, in increment of 5)

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



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Module types:

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

156 cells: TWMPD-78HDxxx (xxx = 570-615, in increment of 5)
156 cells: TWxxxMBAP-156-D (xxx = 575-615, in increment of 5)
156 cells: TWxxxMBGP-156-D (xxx = 570-610, in increment of 5)
144 cells: TWMPD-72HDxxx (xxx = 525-565, in increment of 5)
144 cells: TWxxxMBAP-144-D (xxx = 530-565, in increment of 5)
144 cells: TWxxxMBGP-144-D (xxx = 525-560, in increment of 5)
132 cells: TWMPD-66HDxxx (xxx = 480-520, in increment of 5)
132 cells: TWxxxMBAP-132-D (xxx = 485-520, in increment of 5)
132 cells: TWxxxMBGP-132-D (xxx = 480-515, in increment of 5)
120 cells: TWMPD-60HDxxx (xxx = 440-470, in increment of 5)
120 cells: TWxxxMBAP-120-D (xxx = 440-470, in increment of 5)
120 cells: TWxxxMBGP-120-D (xxx = 440-470, in increment of 5)
108 cells: TWMPD-54HDxxx (xxx = 395-425, in increment of 5)
108 cells: TWxxxMBAP-108-D (xxx = 400-425, in increment of 5)
108 cells: TWxxxMBGP-108-D (xxx = 395-420, in increment of 5)
Remark: xxx indicates output power from the front side only.

Module types:

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

156 cells: TWMND-78HDxxx (xxx = 580-630, in increment of 5)
156 cells: TWxxxMBGT-156-D (xxx = 580-630, in increment of 5)
144 cells: TWMND-72HDxxx (xxx = 535-580, in increment of 5)
144 cells: TWxxxMBGT-144-D (xxx = 535-580, in increment of 5)
132 cells: TWMND-66HDxxx (xxx = 490-530, in increment of 5)
132 cells: TWxxxMBGT-132-D (xxx = 490-530, in increment of 5)
120 cells: TWMND-60HDxxx (xxx = 445-485, in increment of 5)
120 cells: TWxxxMBGT-120-D (xxx = 445-485, in increment of 5)
108 cells: TWMND-54HDxxx (xxx = 400-435, in increment of 5)
108 cells: TWxxxMBGT-108-D (xxx = 400-435, in increment of 5)
Remark: xxx indicates output power from the front side only.



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Consumer Products

Module types:

Double Glass PV Modules with Half-cut 8" PERC Mono-crystalline Silicon Solar Cells

132 cells: TWMPF-66HDxxx (xxx = 635-685, in increment of 5)
132 cells: TWxxxMBCP-132-D (xxx = 635-675, in increment of 5)
132 cells: TWxxxMBIP-132-D (xxx = 635-685, in increment of 5)
120 cells: TWMPF-60HDxxx (xxx = 580-620, in increment of 5)
120 cells: TWxxxMBCP-120-D (xxx = 580-610, in increment of 5)
120 cells: TWxxxMBIP-120-D (xxx = 580-620, in increment of 5)
108 cells: TWMPF-54HDxxx (xxx = 520-560, in increment of 5)
108 cells: TWxxxMBCP-108-D (xxx = 520-550, in increment of 5)
108 cells: TWxxxMBIP-108-D (xxx = 520-560, in increment of 5)
110 cells: TWMPF-55HDxxx (xxx = 530-570, in increment of 5)
110 cells: TWxxxMBCP-110-D (xxx = 530-560, in increment of 5)
110 cells: TWxxxMBIP-110-D (xxx = 530-570, in increment of 5)
100 cells: TWMPF-50HDxxx (xxx = 480-515, in increment of 5)
100 cells: TWxxxMBCP-100-D (xxx = 480-510, in increment of 5)
100 cells: TWxxxMBIP-100-D (xxx = 480-515, in increment of 5)
Remark: xxx indicates output power from the front side only.

Module types:

Double Glass PV Modules with Half-cut 8" TOPCon Mono-crystalline Silicon Solar Cells:

132 cells: TWMNF-66HDxxx (xxx = 665-690, in increment of 5)
132 cells: TWxxxMBIT-132-D (xxx = 665-690, in increment of 5)
120 cells: TWMNF-60HDxxx (xxx = 605-625, in increment of 5)
120 cells: TWxxxMBIT-120-D (xxx = 605-625, in increment of 5)
108 cells: TWMNF-54HDxxx (xxx = 545-565, in increment of 5)
108 cells: TWxxxMBIT-108-D (xxx = 545-565, in increment of 5)
110 cells: TWMNF-55HDxxx (xxx = 530-570, in increment of 5)
110 cells: TWxxxMBIT-110-D (xxx = 530-570, in increment of 5)
100 cells: TWMNF-50HDxxx (xxx = 480-515, in increment of 5)
100 cells: TWxxxMBIT-100-D (xxx = 480-515, in increment of 5)
Remark: xxx indicates output power from the front side only.



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