

CERTIFICATE

Issued to:
Applicant:
Toenergy Technology Hangzhou Co., Ltd.
**No 3, Gaoxin Nine Road, Xiaoshan Economy and
Technology Development Zone
311215 Hangzhou City Zhejiang, China**

Licensee:
Toenergy Technology Hangzhou Co., Ltd.
**No 3, Gaoxin Nine Road, Xiaoshan Economy and
Technology Development Zone
311215 Hangzhou City Zhejiang, China**

Product : Crystalline Silicon PV Modules
Trade name(s) : TOENSOLAR
Type(s)/model(s) : PV module with mono c-Si cells and poly c-Si cells

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard(s) IEC 61215-1:2016, EN 61215-1:2016, IEC 61215-1-1:2016, EN 61215-1-1:2016, IEC 61215-2:2016, EN 61215-2:2017, IEC 61730-1:2016, EN IEC 61730-1:2018, IEC 61730-2:2016 and EN IEC 61730-2:2018
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 6059863

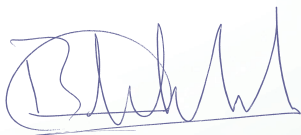
DEKRA hereby grants the right to use the DEKRA Seal certification mark.

The DEKRA Seal certification mark may be applied to the product as specified in this certificate for the duration and under the conditions of the DEKRA Seal certification agreement.


This certificate is issued on 15 June 2021 and expires at the latest on 30 March 2024.

Certificate number: 31-119175

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



H.R.M. Barends
Certification Manager

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SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Crystalline Silicon PV Modules
Trade name(s)	: TOENSOLAR
Type(s)/model(s)	: MxxW, MxxxW, MxxxW-1, MxxxW-2, PxxW and PxxxW
Maximum System Voltage	: 1000 V
Protection Class	: Class II
Pollution Degree	: 1
Fire Rating	: Class C according to UL790

Product data – type MxxW

Design	: PV module with mono c-Si cells
Description	: xx=35, 40, 36 cells xx=45, 36 cells xx=60, 65, 36 cells xx=70, 40 cells xx=75, 36 cells xx=95, 36 cells

Product data – type MxxxW

Design	: PV module with mono c-Si cells
Description	: xxx=110-130, in steps of 5, 36 cells xxx=155-165, in steps of 5, 36 cells xxx=170-180, in steps of 5, 72 cells xxx=190-205, in steps of 5, 72 cells xxx=255-270, in steps of 5, 96 cells xxx=285-310, in steps of 5, 108 cells xxx=320-345, in steps of 5, 120 cells xxx=385-415, in steps of 5, 144 cells

Product data – type MxxxW-1

Design	: PV module with mono c-Si cells
Description	: xxx=100, 36 cells

Product data – type MxxxW-2

Design	: PV module with mono c-Si cells
Description	: xxx=100, 36 cells

Product data – type PxxW

Design	: PV module with poly c-Si cells
Description	: xx=30, 35, 38 cells xx=40, 46 cells xx=45, 50, 36 cells xx=55-65, in steps of 5, 44 cells xx=70-95, in steps of 5, 36 cells

Product data – type PxxxW

Design	: PV module with poly c-Si cells
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Description : xxx=100-130, in steps of 5, 36 cells
xxx=155, 72 cells
xxx=205, 210, 96 cells
xxx=230, 235, 108 cells
xxx=255, 260, 120 cells
xxx=275, 280, 120 cells
xxx=305-315, in steps of 5, 144 cells

TESTS

Test requirements

IEC 61215-1:2016
EN 61215-1:2016
IEC 61215-1-1:2016
EN 61215-1-1:2016
IEC 61215-2:2016
EN 61215-2:2017
IEC 61730-1:2016
EN IEC 61730-1:2018
IEC 61730-2:2016
EN IEC 61730-2:2018

Test result

The test results are laid down in DEKRA test file 610383500.

Additional information

The list of components is laid down in test report 6103835A.50A; 6103835A.50B.

Conclusion

The examination proved that all requirements were met.

Factory locations

Toenergy Technology Hangzhou Co., Ltd.
No 3, Gaoxin Nine Road, Xiaoshan Economy and Technology Development Zone
311215 Hangzhou City Zhejiang, China

Toenergy Solar SDN BHD
No.39, Jalan Perniagaan Setia 6, Taman Perniagaan Setia,
81100 Johor Bahru, Johor, Malaysia

Unique Identifier

