

CERTIFICATE

Issued to:
Applicant:
Ningbo Ring Electronics Co., Ltd.
No.867 of Chunhua Road, Wangchun Industrial
Zone, Haishu District
315171 Ningbo City Zhejiang, China

Licensee:
Ningbo Ring Electronics Co., Ltd.
No.867 of Chunhua Road, Wangchun Industrial
Zone, Haishu District
315171 Ningbo City Zhejiang, China

Product : Photovoltaic (PV) Module(s)
Trade name(s) : RING SOLAR
Type(s)/model(s) : PV Module with mono c-Si cells

The product and any acceptable variation thereto as 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:

- an evaluation according to the standard(s) IEC 61215-1:2016, IEC 61215-1-1:2016, IEC 61215-2:2016, IEC 61730-1:2016 and IEC 61730-2:2016
- a periodic surveillance
- a DEKRA certification agreement with the number 6060583

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

DEKRA hereby grants the right to use the DEKRA Seal certification mark with the following content:

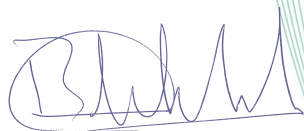
Category : Photovoltaic
Keyword : Module Tested
Keyword : Periodic Factory Inspection

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

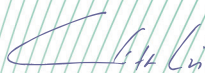
This certificate is issued on 8 April 2024 and expires at the latest on 19 December 2027.

Certificate number: 31-90009-002 REV.2

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



C. Lin
Certification Manager

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31-90009-002

SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Photovoltaic (PV) Module(s)
Trade name(s)	: RING SOLAR
Type(s)/model(s)	: G10Mxxx-12H-V, G10Mxxx-15H-V, G10Mxxx-18H-V, G10Mxxx-21H-V, G10Mxxx-24H-V, G10Mxxx-27H-V, G10Mxxx-30H-V, G10Mxxx-33H-V, G10Mxxx-36, G10Mxxx-36H-V, G10Mxxx-42H-V, G10Mxxx-48H-V, G10Mxxx-54H-V, G10Mxxx-60H-V, G10Mxxx-66H-V, G10Mxxx-72, G10Mxxx-72-V, G10Mxxx-72H-V, G10Mxxx-78H-V, G12Mxxx-03H-V, G12Mxxx-06H-V, G12Mxxx-09H-V, G12Mxxx-12H-V, G12Mxxx-15H-V, G12Mxxx-18H-V, G12Mxxx-21H-V, G12Mxxx-24H-V, G12Mxxx-27H-V, G12Mxxx-30H-V, G12Mxxx-33H-V, G12Mxxx-36, G12Mxxx-36H-V, G12Mxxx-72, G12Mxxx-72-V, G8Mxxx-54H, G8Mxxx-54H-B, G8Mxxx-54H-BV, G8Mxxx-54H-V, G8Mxxx-60H, G8Mxxx-60H-B, G8Mxxx-60H-BV, G8Mxxx-60H-V, G8Mxxx-66H, G8Mxxx-66H-B, G8Mxxx-66H-BV, G8Mxxx-66H-V, G8Mxxx-72H, G8Mxxx-72H-B, G8Mxxx-72H-BV and G8Mxxx-72H-V
Protection Class	: Class II
Pollution Degree	: I
Fire Rating	: Class C

Product data – type G10Mxxx-12H-V

Maximum system voltage	: 1500V
Design	: PV module with mono c-Si cells
Description	: xxx=085-095W, in steps of 5, 24 cells

Product data – type G10Mxxx-15H-V

Maximum system voltage	: 1500V
Design	: PV module with mono c-Si cells
Description	: xxx=105-115W, in steps of 5, 30 cells

Product data – type G10Mxxx-18H-V

Maximum system voltage	: 1500V
Design	: PV module with mono c-Si cells
Description	: xxx=125-140W, in steps of 5, 36 cells

Product data – type G10Mxxx-21H-V

Maximum system voltage	: 1500V
Design	: PV module with mono c-Si cells
Description	: xxx=145-160W, in steps of 5, 42 cells

Product data – type G10Mxxx-24H-V

Maximum system voltage	: 1500V
Design	: PV module with mono c-Si cells
Description	: xxx=170-185W, in steps of 5, 48 cells xxx=165-185W, in steps of 5, 48 cells

Product data – type G10Mxxx-27H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=185-210W, in steps of 5, 54 cells

Product data – type G10Mxxx-30H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=205-230W, in steps of 5, 60 cells

Product data – type G10Mxxx-33H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=225-255W, in steps of 5, 66 cells

Product data – type G10Mxxx-36

Maximum system voltage : 1000V
Design : PV module with mono c-Si cells
Description : xxx=120-260W, in steps of 5, 72 cells
xxx=005-115W, in steps of 5, 36 cells

Product data – type G10Mxxx-36H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=245-280W, in steps of 5, 72 cells

Product data – type G10Mxxx-42H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=290-325W, in steps of 5, 84 cells

Product data – type G10Mxxx-48H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=330-370W, in steps of 5, 96 cells

Product data – type G10Mxxx-54H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=375-420W, in steps of 5, 108 cells

Product data – type G10Mxxx-60H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=430-465W, in steps of 5, 120 cells

Product data – type G10Mxxx-66H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells

Description : xxx=430-515W, in steps of 5, 132 cells

Product data – type G10Mxxx-72

Maximum system voltage : 1000V
Design : PV module with mono c-Si cells
Description : xxx=120-260W, in steps of 5, 72 cells

Product data – type G10Mxxx-72H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=470-560W, in steps of 5, 144 cells

Product data – type G10Mxxx-72-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=245-280W, in steps of 5, 72 cells

Product data – type G10Mxxx-78H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=560-605W, in steps of 5, 156 cells

Product data – type G12Mxxx-03H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=025-030W, in steps of 5, 6 cells

Product data – type G12Mxxx-06H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=055-060W, in steps of 5, 12 cells

Product data – type G12Mxxx-09H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=080-095W, in steps of 5, 18 cells

Product data – type G12Mxxx-12H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=110-125W, in steps of 5, 24 cells

Product data – type G12Mxxx-15H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=140-155W, in steps of 5, 30 cells

Product data – type G12Mxxx-18H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=165-185W, in steps of 5, 36 cells

Product data – type G12Mxxx-21H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=190-215W, in steps of 5, 42 cells

Product data – type G12Mxxx-24H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=220-245W, in steps of 5, 48 cells

Product data – type G12Mxxx-27H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=245-275W, in steps of 5, 54 cells

Product data – type G12Mxxx-30H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=275-305W, in steps of 5, 60 cells

Product data – type G12Mxxx-33H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=305-340W, in steps of 5, 66 cells

Product data – type G12Mxxx-36

Maximum system voltage : 1000V
Design : PV module with mono c-Si cells
Description : xxx=170-340W, in steps of 5, 72 cells
xxx=005-165W, in steps of 5, 36 cells

Product data – type G12Mxxx-36H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=330-370W, in steps of 5, 72 cells

Product data – type G12Mxxx-72

Maximum system voltage : 1000V
Design : PV module with mono c-Si cells
Description : xxx=170-340W, in steps of 5, 72 cells

Product data – type G12Mxxx-72-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells

Description : xxx=330-370W, in steps of 5, 72 cells

Product data – type G8Mxxx-54H

Maximum system voltage : 1000V
Design : PV module with mono c-Si cells
Description : xxx=270-310W, in steps of 5, 108 cells

Product data – type G8Mxxx-54H-B

Maximum system voltage : 1000V
Design : PV module with mono c-Si cells
Description : xxx=270-310W, in steps of 5, 108 cells

Product data – type G8Mxxx-54H-BV

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=270-310W, in steps of 5, 108 cells

Product data – type G8Mxxx-54H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=270-310W, in steps of 5, 108 cells

Product data – type G8Mxxx-60H

Maximum system voltage : 1000V
Design : PV module with mono c-Si cells
Description : xxx=320W~345W, in steps of 5, 120 cells

Product data – type G8Mxxx-60H-B

Maximum system voltage : 1000V
Design : PV module with mono c-Si cells
Description : xxx=320-345W, in steps of 5, 120 cells

Product data – type G8Mxxx-60H-BV

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=320-345W, in steps of 5, 120 cells

Product data – type G8Mxxx-60H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=320-345W, in steps of 5, 120 cells

Product data – type G8Mxxx-66H

Maximum system voltage : 1000V
Design : PV module with mono c-Si cells
Description : xxx=350W~380W, in steps of 5, 132 cells

Product data – type G8Mxxx-66H-B

Maximum system voltage : 1000V
Design : PV module with mono c-Si cells
Description : xxx=350-380W, in steps of 5, 132 cells

Product data – type G8Mxxx-66H-BV

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=350-380W, in steps of 5, 132 cells

Product data – type G8Mxxx-66H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=350-380W, in steps of 5, 132 cells

Product data – type G8Mxxx-72H

Maximum system voltage : 1000V
Design : PV module with mono c-Si cells
Description : xxx=385-415W, in steps of 5, 144 cells

Product data – type G8Mxxx-72H-B

Maximum system voltage : 1000V
Design : PV module with mono c-Si cells
Description : xxx=385-415W, in steps of 5, 144 cells

Product data – type G8Mxxx-72H-BV

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=385-415W, in steps of 5, 144 cells

Product data – type G8Mxxx-72H-V

Maximum system voltage : 1500V
Design : PV module with mono c-Si cells
Description : xxx=385-415W, in steps of 5, 144 cells

TESTS**Test requirements**

IEC 61215-1:2016
IEC 61215-1-1:2016
IEC 61215-2:2016
IEC 61730-1:2016
IEC 61730-2:2016

Test result

The test results are laid down in DEKRA test file 606978400.

Additional information

This certificate replaces certificate No. 31-90009-002 REV.1 which we hereby declare invalid.

The list of components is laid down in test report 6069784G.53A and 6069784G.53B.

Conclusion

The examination proved that all requirements were met.

Factory location

Ningbo Ring Electronics Co., Ltd.

No.867 of Chunhua Road, Wangchun Industrial Zone, Haishu District

315171 Ningbo City Zhejiang, China

Trade name(s): RING SOLAR stands for  **RING SOLAR**

Unique Identifier

