

# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
PV Horay Rights

Blatt *Sheet*  
0001

Ihr Zeichen *Client Reference*  
M.G

Unser Zeichen *Our Reference*  
01-Ruanand-CN22N95B 001

Ausstellungsdatum  
24.06.2022

*Date of Issue*  
(day/mo/yr)

**Genehmigungsinhaber *License Holder***

HORAY SOLAR CO., LTD  
No.30-5,  
Yanxin East Road, Huishan District  
Wuxi,  
214177 Jiangsu  
P.R. China

**Fertigungsstätte *Manufacturing Plant***

Refer to latest revision  
of the annex list of factories

**Prüfzeichen *Test Mark***



**Geprüft nach *Tested acc. to***

IEC 61215-1:2021  
IEC 61215-1-1:2021  
IEC 61215-2:2021  
IEC 61730-1:2016  
IEC 61730-2:2016  
EN IEC 61215-1:2021  
EN IEC 61215-1-1:2021  
EN IEC 61215-2:2021  
EN IEC 61730-1:2018  
EN IEC 61730-2:2018

**Zertifiziertes Produkt (Geräteidentifikation)  
*Certified Product (Product Identification)***

**Lizenzentgelte - Einheit  
*License Fee - Unit***

PV Module

Type Designation:

Max. System Voltage: up to 1500 VDC (Voc at STC):

With 1/2 cut of mono c-Si cell with cell size (Under STC)

HSxxx-MHG-D (xxx=640-660, in steps of 5, 132 cells)

HSxxx-MHG-D (xxx=585-600, in steps of 5, 120 cells)

HSxxx-MHG-D (xxx=535-550, in steps of 5, 110 cells)

HSxxx-MHG-D (xxx=485-500, in steps of 5, 100 cells)

HSxxx-MHO-D (xxx=535-560, in steps of 5, 144 cells)

HSxxx-MHO-D (xxx=495-515, in steps of 5, 132 cells)

HSxxx-MHO-D (xxx=450-470, in steps of 5, 120 cells)

HSxxx-MHO-D (xxx=405-420, in steps of 5, 108 cells)

HSxxx-MHL-D (xxx=445-465, in steps of 5, 144 cells)

HSxxx-MHL-D (xxx=410-425, in steps of 5, 132 cells)

HSxxx-MHL-D (xxx=370-385, in steps of 5, 120 cells)

With 1/2 cut of mono c-Si cell with cell size (Under BNPI)

HSxxx-MHG-D (xxx=701-723, in steps of 5, 132 cells)

HSxxx-MHG-D (xxx=641-657, in steps of 5, 120 cells)

HSxxx-MHG-D (xxx=586-602, in steps of 5, 110 cells)

HSxxx-MHG-D (xxx=531-548, in steps of 5, 100 cells)

Continued on Page 0002

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.  
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.  
This certificate is based on our Testing and Certification Regulation. The product  
fulfills above mentioned requirements, the production is subject to surveillance.



Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

<http://www.tuv.com/safety> E-mail: [markcheck@tuv.com](mailto:markcheck@tuv.com)

Fax: +49 221 806-3935

Dipl.-Ing. Matthias Grzam

# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
PV Horay Rights

Blatt *Sheet*  
0002

Ihr Zeichen *Client Reference*  
M.G

Unser Zeichen *Our Reference*  
01-Ruanand-CN22N95B 001

Ausstellungsdatum  
24.06.2022

*Date of Issue*  
(day/mo/yr)

**Genehmigungsinhaber *License Holder***

HORAY SOLAR CO., LTD  
No.30-5,  
Yanxin East Road, Huishan District  
Wuxi,  
214177 Jiangsu  
P.R. China

**Fertigungsstätte *Manufacturing Plant***

Refer to latest revision  
of the annex list of factories

**Prüfzeichen *Test Mark***



**Geprüft nach *Tested acc. to***

IEC 61215-1:2021  
IEC 61215-1-1:2021  
IEC 61215-2:2021  
IEC 61730-1:2016  
IEC 61730-2:2016  
EN IEC 61215-1:2021  
EN IEC 61215-1-1:2021  
EN IEC 61215-2:2021  
EN IEC 61730-1:2018  
EN IEC 61730-2:2018

**Zertifiziertes Produkt (Geräteidentifikation)  
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**Lizenzentgelte - Einheit  
*License Fee - Unit***

PV Module

Continuation of Page 0001

HSxxx-MHO-D (xxx=586-613, in steps of 5, 144 cells)  
HSxxx-MHO-D (xxx=542-564, in steps of 5, 132 cells)  
HSxxx-MHO-D (xxx=493-515, in steps of 5, 120 cells)  
HSxxx-MHO-D (xxx=443-460, in steps of 5, 108 cells)  
HSxxx-MHL-D (xxx=487-509, in steps of 5, 144 cells)  
HSxxx-MHL-D (xxx=449-465, in steps of 5, 132 cells)  
HSxxx-MHL-D (xxx=405-422, in steps of 5, 120 cells)

Remarks:

Class II acc. to IEC 61140  
Fire Rating: Class A (according to UL 790)  
Design Load/ Safety Factors: 3600 Pa / 1.5 (downward)  
1600 Pa / 1.5 (upward)

Conditions:

The product test is voluntarily according to technical regulations. Any change of the design, materials, components or processing may require the repetition of some of the qualification tests in order to retain type approval.  
This certificate is valid until 23 June 2027

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.  
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.  
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.



Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg  
<http://www.tuv.com/safety> E-mail: [markcheck@tuv.com](mailto:markcheck@tuv.com)  
Fax: +49 221 806-3935

Dipl.-Ing. Matthias Grzam

# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
PV Horay Rights

Blatt *Sheet*  
0003

Ihr Zeichen *Client Reference*  
M.G

Unser Zeichen *Our Reference*  
01-Ruanand-CN22NKK2

Ausstellungsdatum  
002 11.08.2022

*Date of Issue*  
(day/mo/yr)

**Genehmigungsinhaber *License Holder***

HORAY SOLAR CO., LTD  
No.30-5,  
Yanxin East Road, Huishan District  
Wuxi,  
214177 Jiangsu  
P.R. China

**Fertigungsstätte *Manufacturing Plant***

Refer to latest revision  
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**Prüfzeichen *Test Mark***



**Geprüft nach *Tested acc. to***

IEC 61215  
IEC 61730  
Regular Production  
Surveillance  
www.tuv.com  
ID 1111253582

IEC 61215-1:2021  
IEC 61215-1-1:2021  
IEC 61215-2:2021  
IEC 61730-1:2016  
IEC 61730-2:2016  
EN IEC 61215-1:2021  
EN IEC 61215-1-1:2021  
EN IEC 61215-2:2021  
EN IEC 61730-1:2018  
EN IEC 61730-2:2018

**Zertifiziertes Produkt (Geräteidentifikation)  
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**Lizenzentgelte - Einheit  
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PV Module

Same as Page 0001-0002

In addition:

Type Designation:

Max. System Voltage: up to 1500 VDC (Voc at STC):

With cut of mono c-Si cell:

- HSxxx-MHG (xxx=170-180, in steps of 5, 36 cells)
- HSxxx-MHG (xxx=110-120, in steps of 5, 36 cells)
- HSxxx-MHG (xxx=80-90, in steps of 5, 36 cells)
- HSxxx-MHO (xxx=120-130, in steps of 5, 36 cells)
- HSxxx-MHO (xxx=80-90, in steps of 5, 36 cells)
- HSxxx-MHO (xxx=60-65, in steps of 5, 36 cells)
- HSxxx-MHL (xxx=100-110, in steps of 5, 36 cells)
- HSxxx-MHL (xxx=70-75, in steps of 5, 36 cells)
- HSxxx-MHL (xxx=50-55, in steps of 5, 36 cells)

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