

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
PV 50546229

Blatt Sheet
0001

Ihr Zeichen Client Reference
P.W

Unser Zeichen Our Reference
01-HUELL-CN22WKH5 001

Ausstellungsdatum Date of Issue
24.06.2022 (day/mo/yr)

Genehmigungsinhaber License Holder

SHENZHEN SOLAR-GRIDS DIGITAL POWER TECHNOLOGIES CO., LTD.
Room 607, Building B, Tengfei Industrial Building, No.6 taohua Road Fubao Community, Fubao Street, Futian District, Shenzhen 518045 Guangdong 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 cells:

SG-Pxxx-MAH72Mw (xxx=525-560, in steps of 5, 144 cells)
SG-Pxxx-MAH60Mw (xxx=440-465, in steps of 5, 120 cells)
SG-Pxxx-MAH54Mw (xxx=395-420, in steps of 5, 108 cells)
SG-Axxx-MAH72Mw (xxx=550-605, in steps of 5, 144 cells)
SG-Axxx-MAH60Mw (xxx=460-500, in steps of 5, 120 cells)
SG-Axxx-MAH54Mw (xxx=415-450, in steps of 5, 108 cells)
SG-Bxxx-MAH72Mw (xxx=540-580, in steps of 5, 144 cells)
SG-Bxxx-MAH60Mw (xxx=450-480, in steps of 5, 120 cells)
SG-Bxxx-MAH54Mw (xxx=405-435, in steps of 5, 108 cells)

Remarks:

Class II acc. to IEC 61140

Fire Rating: Class C (according to UL 790)

Design Load/ Safety Factors: 3600 Pa / 1.5 (downward)

1600 Pa / 1.5 (upward)

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

Fax: +49 221 806-3935

Dipl.-Ing. (FH) Tim Kirschner

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
PV 50546229

Blatt Sheet
0002

Ihr Zeichen Client Reference
P.W

Unser Zeichen Our Reference
01-HUELL-CN22WKH5 001

Ausstellungsdatum Date of Issue
24.06.2022 (day/mo/yr)

Genehmigungsinhaber License Holder

SHENZHEN SOLAR-GRIDS DIGITAL POWER TECHNOLOGIES CO., LTD.
Room 607, Building B, Tengfei Industrial Building, No.6 taohua Road Fubao Community, Fubao Street, Futian District, Shenzhen 518045 Guangdong 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

Continuation of Page 0001

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.

The 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
Fax: +49 221 806-3935

Dipl.-Ing. (FH) Tim Kirschner

Anlage Fertigungsstättenliste
/Attachment List of Factories



PV 50546229 0001

1 Guangdong Aiko Solar Energy Technology
Co., Ltd.
No.3, South Qili Avenue, Leping Town,
Sanshui District, Foshan,
528137 Guangdong
P.R. China



TÜVRheinland®

Dieser Anhang ersetzt den Vorgänger vom/
This annex replaces the previous annex dated

Datum / Date 24.06.2022



Zertifizierungsstelle
/ Certification Body

A handwritten signature in blue ink, appearing to read 'Tim Kirschner'.

Dipl.-Ing. (FH) Tim Kirschner

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
PV 50546229

Blatt *Sheet*
0003

Ihr Zeichen *Client Reference*
P.W

Unser Zeichen *Our Reference*
01-HUELL-CN22WKH5 002

Ausstellungsdatum *Date of Issue*
28.09.2022 (day/mo/yr)

Genehmigungsinhaber *License Holder*

SHENZHEN SOLAR-GRIDS DIGITAL POWER TECHNOLOGIES CO., LTD.
Room 607, Building B, Tengfei Industrial Building, No.6 taohua Road Fubao Community, Fubao Street, Futian District, Shenzhen 518045 Guangdong 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

Same as Page 0001-0002

In addition:

Type Designation:

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

With 1/2 cut of mono c-Si cells:

SG-Pxxx-MAH72Mb (xxx=525-560, in steps of 5, 144 cells)
SG-Pxxx-MAH60Mb (xxx=440-465, in steps of 5, 120 cells)
SG-Pxxx-MAH54Mb (xxx=395-420, in steps of 5, 108 cells)
SG-Axxx-MAH72Mb (xxx=550-605, in steps of 5, 144 cells)
SG-Axxx-MAH60Mb (xxx=460-500, in steps of 5, 120 cells)
SG-Axxx-MAH54Mb (xxx=415-450, in steps of 5, 108 cells)
SG-Bxxx-MAH72Mb (xxx=540-580, in steps of 5, 144 cells)
SG-Bxxx-MAH60Mb (xxx=450-480, in steps of 5, 120 cells)
SG-Bxxx-MAH54Mb (xxx=405-435, in steps of 5, 108 cells)

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.

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



Zertifikat

Certificate



Zertifikat Nr. Certificate No.
PV 50546229

Blatt Sheet
0004

Ihr Zeichen Client Reference
P.W

Unser Zeichen Our Reference
01-HUELL-CN22WKH5 003

Ausstellungsdatum Date of Issue
22.12.2022 (day/mo/yr)

Genehmigungsinhaber License Holder

SHENZHEN SOLAR-GRIDS DIGITAL POWER TECHNOLOGIES CO., LTD.
Room 607, Building B, Tengfei Industrial Building, No.6 taohua Road Fubao Community, Fubao Street, Futian District, Shenzhen 518045 Guangdong 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

Same as Page 0001-0003

In addition:

Type Designation:

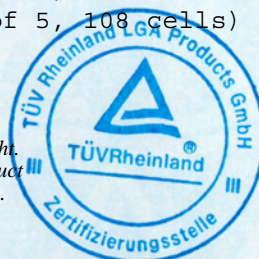
Max. System Voltage: up to 1500 VDC (Voc at STC):

With 1/2 cut of mono c-Si cells:

AIKO-Pxxx-MAH72Mw (xxx=525-560, in steps of 5, 144 cells)
AIKO-Pxxx-MAH60Mw (xxx=440-465, in steps of 5, 120 cells)
AIKO-Pxxx-MAH54Mw (xxx=395-420, in steps of 5, 108 cells)
AIKO-Axxx-MAH72Mw (xxx=550-615, in steps of 5, 144 cells)
AIKO-Axxx-MAH60Mw (xxx=460-510, in steps of 5, 120 cells)
AIKO-Axxx-MAH54Mw (xxx=415-460, in steps of 5, 108 cells)
AIKO-Bxxx-MAH72Mw (xxx=540-580, in steps of 5, 144 cells)
AIKO-Bxxx-MAH60Mw (xxx=450-480, in steps of 5, 120 cells)
AIKO-Bxxx-MAH54Mw (xxx=405-435, in steps of 5, 108 cells)
AIKO-Pxxx-MAH72Mb (xxx=525-560, in steps of 5, 144 cells)
AIKO-Pxxx-MAH60Mb (xxx=440-465, in steps of 5, 120 cells)
AIKO-Pxxx-MAH54Mb (xxx=395-420, in steps of 5, 108 cells)

Continued on Page 0005

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

Fax: +49 221 806-3935

Dipl.-Ing. (TU) G. Reimann

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
PV 50546229

Blatt Sheet
0005

Ihr Zeichen Client Reference
P.W

Unser Zeichen Our Reference
01-HUELL-CN22WKH5 003

Ausstellungsdatum Date of Issue
22.12.2022 (day/mo/yr)

Genehmigungsinhaber License Holder

SHENZHEN SOLAR-GRIDS DIGITAL POWER TECHNOLOGIES CO., LTD.
Room 607, Building B, Tengfei Industrial Building, No.6 taohua Road Fubao Community, Fubao Street, Futian District, Shenzhen 518045 Guangdong P.R. China

Fertigungsstätte Manufacturing Plant

Refer to latest revision of the annex list of factories

Prüfzeichen Test Mark



IEC 61215
IEC 61730
Regular Production Surveillance
www.tuv.com
ID 1111254924

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

Continuation of Page 0004

AIKO-Axxx-MAH72Mb (xxx=550-615, in steps of 5, 144 cells)
AIKO-Axxx-MAH60Mb (xxx=460-510, in steps of 5, 120 cells)
AIKO-Axxx-MAH54Mb (xxx=415-460, in steps of 5, 108 cells)
AIKO-Bxxx-MAH72Mb (xxx=540-580, in steps of 5, 144 cells)
AIKO-Bxxx-MAH60Mb (xxx=450-480, in steps of 5, 120 cells)
AIKO-Bxxx-MAH54Mb (xxx=405-435, in steps of 5, 108 cells)

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
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Zertifizierungsstelle

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Dipl.-Ing. (TU) G. Reimann

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.* Blatt *Sheet*
PV 50546229 0006

Ihr Zeichen *Client Reference* Unser Zeichen *Our Reference* Ausstellungsdatum *Date of Issue*
P.W 01-HUELL-CN22WKH5 008 08.05.2023 (day/mo/yr)

Genehmigungsinhaber *License Holder*
Shenzhen Aiko Digital Energy
Technology Co., Ltd.
Room 607, Building B, Tengfei
Industrial Building, No.6 Taohua Road
Fubao Community, Fubao Street, Futian
District, Shenzhen 518045 Guangdong
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

Same as Page 0001-0005

Remarks:

- Change name of license holder see above.

*Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
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