

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
PV 50536079

Blatt *Sheet*
0001

Ihr Zeichen *Client Reference*
F.C.

Unser Zeichen *Our Reference*
01-ZYF-CN22QJ80 001

Ausstellungsdatum *Date of Issue*
21.03.2022 (day/mo/yr)

Genehmigungsinhaber *License Holder*
AE SOLAR GmbH
Messerschmitttring 54
86343 Königsbrunn
Germany

Fertigungsstätte *Manufacturing Plant*
Refer to latest revision
of the annex list of factories

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

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

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

With ½ cut of 210 mono c-Si cell:

AExxxME-132 (xxx=640-670, in steps of 5, 132 cells)

AExxxME-120 (xxx=580-610, in steps of 5, 120 cells)

AExxxME-110 (xxx=535-555, in steps of 5, 110 cells)

With ½ cut of 210 mono c-Si cell:

AExxxME-T150 (xxx=480-520, in steps of 5, 150 cells)

AExxxME-T120 (xxx=385-415, in steps of 5, 120 cells)

With ½ cut of 182 mono c-Si cell:

AExxxMD-156 (xxx=565-600, in steps of 5, 156 cells)

AExxxMD-144 (xxx=520-555, in steps of 5, 144 cells)

AExxxMD-132 (xxx=480-505, in steps of 5, 132 cells)

AExxxMD-120 (xxx=435-460, in steps of 5, 120 cells)

AExxxMD-108 (xxx=390-415, in steps of 5, 108 cells)

AExxxMD-96 (xxx=350-370, in steps of 5, 96 cells)

AExxxMD-72 (xxx=260-275, in steps of 5, 72 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.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

<http://www.tuv.com/safety> E-mail: markcheck@tuv.com

Fax: +49 221 806-3935

Zertifizierungsstelle



Dipl.-Ing. (FH) Tim Kirschner

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
PV 50536079

Blatt *Sheet*
0002

Ihr Zeichen *Client Reference*
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Unser Zeichen *Our Reference*
01-ZYF-CN22QJ80 001

Ausstellungsdatum *Date of Issue*
21.03.2022 (day/mo/yr)

Genehmigungsinhaber *License Holder*
AE SOLAR GmbH
Messerschmitttring 54
86343 Königsbrunn
Germany

Fertigungsstätte *Manufacturing Plant*
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Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

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EN 61215-1:2016
EN 61215-1-1:2016
EN 61215-2:2017
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 1

With ½ cut of 166 mono c-Si cell:

AExxxMC-144 (xxx=420-460, in steps of 5, 144 cells)
AExxxMC-132 (xxx=385-420, in steps of 5, 132 cells)
AExxxMC-120 (xxx=350-385, in steps of 5, 120 cells)
AExxxMC-108 (xxx=315-345, in steps of 5, 108 cells)
AExxxMC-96 (xxx=280-305, in steps of 5, 96 cells)
AExxxMC-72 (xxx=210-230, in steps of 5, 72 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)

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 17 March 2027.

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Zertifikat Nr. Certificate No.
PV 50536079

Blatt Sheet
0003

Ihr Zeichen Client Reference
F.C.

Unser Zeichen Our Reference
01-ZYF-CN22QJ80 002

Ausstellungsdatum Date of Issue
27.05.2022 (day/mo/yr)

Genehmigungsinhaber License Holder
AE SOLAR GmbH
Messerschmitttring 54
86343 Königsbrunn
Germany

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 1111251295

Geprüft nach Tested acc. to

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

In addition:

Type Designations:

With 156 mono c-Si cell:

AExxxMA-72 (xxx=370-385, in steps of 5, 72 cells)

AExxxMA-60 (xxx=310-320, in steps of 5, 60 cells)

AExxxMA-36 (xxx=185-195, in steps of 5, 36 cells)

With 158 mono c-Si cell:

AExxxMB-72 (xxx=385-400, in steps of 5, 72 cells)

AExxxMB-60 (xxx=320-335, in steps of 5, 60 cells)

AExxxMB-36 (xxx=185-200, in steps of 5, 36 cells)

With ½ cut of 158 mono c-Si cell:

AExxxMB-144 (xxx=390-415, in steps of 5, 144 cells)

AExxxMB-120 (xxx=325-345, in steps of 5, 120 cells)

With 158 mono c-Si cell:

AExxxSMB-72 (xxx=385-400, in steps of 5, 72 cells)

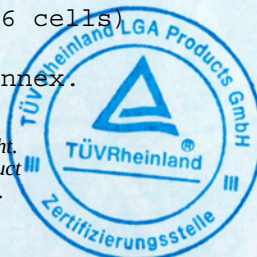
AExxxSMB-60 (xxx=320-335, in steps of 5, 60 cells)

AExxxSMB-36 (xxx=185-200, in steps of 5, 36 cells)

Remarks:

- Additional new manufacturing plant see annex.

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Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
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fulfills above mentioned requirements, the production is subject to surveillance.



Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

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Fax: +49 221 806-3935

Dipl.-Ing. Matthias Grzam

Zertifikat

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Zertifikat Nr. *Certificate No.*
PV 50536079

Blatt *Sheet*
0004

Ihr Zeichen *Client Reference*
F.C.

Unser Zeichen *Our Reference*
01-GJJ-CN22QJ80 004

Ausstellungsdatum *Date of Issue*
16.09.2022 (day/mo/yr)

Genehmigungsinhaber *License Holder*
AE SOLAR GmbH
Messerschmittring 54
86343 Königsbrunn
Germany

Fertigungsstätte *Manufacturing Plant*
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Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

PV Module

Same as Page 1-3

In addition:

Type Designations:

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

With 156 mono c-Si cell:

AExxxMA-72BS (xxx=370-385, in steps of 5, 72 cells)

AExxxMA-60BS (xxx=310-320, in steps of 5, 60 cells)

AExxxMA-36BS (xxx=185-195, in steps of 5, 36 cells)

With 158 mono c-Si cell:

AExxxMB-72BS (xxx=385-400, in steps of 5, 72 cells)

AExxxMB-60BS (xxx=320-335, in steps of 5, 60 cells)

AExxxMB-36BS (xxx=185-200, in steps of 5, 36 cells)

With ½ cut of 158 mono c-Si cell:

AExxxMB-144BS (xxx=390-415, in steps of 5, 144 cells)

AExxxMB-120BS (xxx=325-345, in steps of 5, 120 cells)

With 158 mono c-Si cell:

AExxxSMB-72BS (xxx=385-400, in steps of 5, 72 cells)

Continued on Page 0005

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
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Dipl.-Ing. Matthias Grzam

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EN 61215-2:2017
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

AExxxSMB-60BS (xxx=320-335, in steps of 5, 60 cells)
AExxxSMB-36BS (xxx=185-200, in steps of 5, 36 cells)
With ½ cut of 210 mono c-Si cell:
AExxxME-132BS (xxx=640-670, in steps of 5, 132 cells)
AExxxME-120BS (xxx=580-610, in steps of 5, 120 cells)
AExxxME-110BS (xxx=535-555, in steps of 5, 110 cells)
With ½ cut of 210 mono c-Si cell:
AExxxME-T150BS (xxx=480-520, in steps of 5, 150 cells)
AExxxME-T120BS (xxx=385-415, in steps of 5, 120 cells)
With ½ cut of 182 mono c-Si cell:
AExxxMD-156BS (xxx=565-600, in steps of 5, 156 cells)
AExxxMD-144BS (xxx=520-555, in steps of 5, 144 cells)
AExxxMD-132BS (xxx=480-505, in steps of 5, 132 cells)
AExxxMD-120BS (xxx=435-460, in steps of 5, 120 cells)
AExxxMD-108BS (xxx=390-415, in steps of 5, 108 cells)
AExxxMD-96BS (xxx=350-370, in steps of 5, 96 cells)
AExxxMD-72BS (xxx=260-275, in steps of 5, 72 cells)
Continued on Page 0006

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



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Zertifikat Nr. *Certificate No.*
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0006

Ihr Zeichen *Client Reference*
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Unser Zeichen *Our Reference*
01-GJJ-CN22QJ80 004

Ausstellungsdatum *Date of Issue*
16.09.2022 (day/mo/yr)

Genehmigungsinhaber *License Holder*
AE SOLAR GmbH
Messerschmittring 54
86343 Königsbrunn
Germany

Fertigungsstätte *Manufacturing Plant*
Refer to latest revision
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Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

IEC 61215-1:2016
IEC 61215-1-1:2016
IEC 61215-2:2016
IEC 61730-1:2016
IEC 61730-2:2016
EN 61215-1:2016
EN 61215-1-1:2016
EN 61215-2:2017
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 0005

With ½ cut of 166 mono c-Si cell:

AExxxMC-144BS (xxx=420-460, in steps of 5, 144 cells)
AExxxMC-132BS (xxx=385-420, in steps of 5, 132 cells)
AExxxMC-120BS (xxx=350-385, in steps of 5, 120 cells)
AExxxMC-108BS (xxx=315-345, in steps of 5, 108 cells)
AExxxMC-96BS (xxx=280-305, in steps of 5, 96 cells)
AExxxMC-72BS (xxx=210-230, in steps of 5, 72 cells)

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
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Fax: +49 221 806-3935

Zertifizierungsstelle



Dipl.-Ing. Matthias Grzam

Zertifikat

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Zertifikat Nr. Certificate No.
PV 50536079

Blatt Sheet
0007

Ihr Zeichen Client Reference
F.C.

Unser Zeichen Our Reference
01-GJJ-CN22QJ80 006

Ausstellungsdatum Date of Issue
06.01.2023 (day/mo/yr)

Genehmigungsinhaber License Holder
AE SOLAR GmbH
Messerschmitttring 54
86343 Königsbrunn
Germany

Fertigungsstätte Manufacturing Plant
Refer to latest revision
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Prüfzeichen Test Mark



IEC 61215
IEC 61730
Regular Production
Surveillance

www.tuv.com
ID 1111251295

Geprüft nach Tested acc. to

IEC 61215-1:2016
IEC 61215-1-1:2016
IEC 61215-2:2016
IEC 61730-1:2016
IEC 61730-2:2016
EN 61215-1:2016
EN 61215-1-1:2016
EN 61215-2:2017
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 1-6

In addition:

Type Designations:

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

With 156 mono c-Si cell:

AExxxMA-72E (xxx=370-385, in steps of 5, 72 cells)

AExxxMA-60E (xxx=310-320, in steps of 5, 60 cells)

AExxxMA-36E (xxx=185-195, in steps of 5, 36 cells)

With 158 mono c-Si cell:

AExxxMB-72E (xxx=385-400, in steps of 5, 72 cells)

AExxxMB-60E (xxx=320-335, in steps of 5, 60 cells)

AExxxMB-36E (xxx=185-200, in steps of 5, 36 cells)

With ½ cut of 158 mono c-Si cell:

AExxxMB-144E (xxx=390-415, in steps of 5, 144 cells)

AExxxMB-120E (xxx=325-345, in steps of 5, 120 cells)

With 158 mono c-Si cell:

AExxxSMB-72E (xxx=385-400, in steps of 5, 72 cells)

Continued on Page 0008

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
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Dipl.-Ing. (FH) F. He

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Blatt Sheet
0008

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Ausstellungsdatum Date of Issue
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Fertigungsstätte Manufacturing Plant
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Prüfzeichen Test Mark



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IEC 61215-2:2016
IEC 61730-1:2016
IEC 61730-2:2016
EN 61215-1:2016
EN 61215-1-1:2016
EN 61215-2:2017
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 0007

AExxxSMB-60E (xxx=320-335, in steps of 5, 60 cells)

AExxxSMB-36E (xxx=185-200, in steps of 5, 36 cells)

With ½ cut of 210 mono c-Si cell:

AExxxME-132E (xxx=640-670, in steps of 5, 132 cells)

AExxxME-120E (xxx=580-610, in steps of 5, 120 cells)

AExxxME-110E (xxx=535-555, in steps of 5, 110 cells)

With ⅓ cut of 210 mono c-Si cell:

AExxxME-T150E (xxx=480-520, in steps of 5, 150 cells)

AExxxME-T120E (xxx=385-415, in steps of 5, 120 cells)

With ½ cut of 182 mono c-Si cell:

AExxxMD-156E (xxx=565-600, in steps of 5, 156 cells)

AExxxMD-144E (xxx=520-555, in steps of 5, 144 cells)

AExxxMD-132E (xxx=480-505, in steps of 5, 132 cells)

AExxxMD-120E (xxx=435-460, in steps of 5, 120 cells)

AExxxMD-108E (xxx=390-415, in steps of 5, 108 cells)

AExxxMD-96E (xxx=350-370, in steps of 5, 96 cells)

Continued on Page 0009

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Dipl.-Ing. (FH) F. He

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Zertifikat Nr. Certificate No.
PV 50536079

Blatt Sheet
0009

Ihr Zeichen Client Reference
F.C.

Unser Zeichen Our Reference
01-GJJ-CN22QJ80 006

Ausstellungsdatum Date of Issue
06.01.2023 (day/mo/yr)

Genehmigungsinhaber License Holder
AE SOLAR GmbH
Messerschmitttring 54
86343 Königsbrunn
Germany

Fertigungsstätte Manufacturing Plant
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Prüfzeichen Test Mark



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Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

PV Module

Continuation of Page 0008

AExxxMD-72E (xxx=260-275, in steps of 5, 72 cells)

With ½ cut of 166 mono c-Si cell:

AExxxMC-144E (xxx=420-460, in steps of 5, 144 cells)

AExxxMC-132E (xxx=385-420, in steps of 5, 132 cells)

AExxxMC-120E (xxx=350-385, in steps of 5, 120 cells)

AExxxMC-108E (xxx=315-345, in steps of 5, 108 cells)

AExxxMC-96E (xxx=280-305, in steps of 5, 96 cells)

AExxxMC-72E (xxx=210-230, in steps of 5, 72 cells)

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This certificate is based on our Testing and Certification Regulation. The product
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Zertifikat

Certificate



Zertifikat Nr. Certificate No.
PV 50536079

Blatt Sheet
0010

Ihr Zeichen Client Reference
F.C.

Unser Zeichen Our Reference
01-JS-CN22QJ8O 014

Ausstellungsdatum Date of Issue
28.02.2024 (day/mo/yr)

Genehmigungsinhaber License Holder
AE SOLAR GmbH
Messerschmitttring 54
86343 Königsbrunn
Germany

Fertigungsstätte Manufacturing Plant
Refer to latest revision
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Prüfzeichen Test Mark



IEC 61215
IEC 61730
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Zertifiziertes Produkt (Geräteidentifikation) Certified Product (Product Identification)

Lizenzentgelte - Einheit License Fee - Unit

PV Module

Same as Page 0001-0009

In addition:

Type Designation:

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

With 1/2 cut of 210 mono c-Si cells:

AExxxCME-132 (xxx=660-680, in steps of 5, 132 cells)
AExxxCME-120 (xxx=600-620, in steps of 5, 120 cells)
AExxxCME-110 (xxx=550-570, in steps of 5, 110 cells)
AExxxCME-132E (xxx=660-680, in steps of 5, 132 cells)
AExxxCME-120E (xxx=600-620, in steps of 5, 120 cells)
AExxxCME-110E (xxx=550-570, in steps of 5, 110 cells)

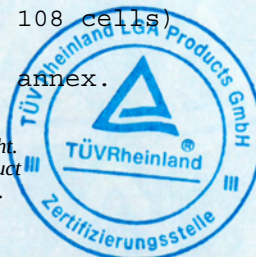
With 1/2 cut of 182 mono c-Si cells:

AExxxCMD-144 (xxx=560-595, in steps of 5, 144 cells)
AExxxCMD-120 (xxx=470-495, in steps of 5, 120 cells)
AExxxCMD-108 (xxx=420-445, in steps of 5, 108 cells)
AExxxCMD-144E (xxx=560-595, in steps of 5, 144 cells)
AExxxCMD-120E (xxx=470-495, in steps of 5, 120 cells)
AExxxCMD-108E (xxx=420-445, in steps of 5, 108 cells)

xxx represents output power in Wp

Remarks: - Manufacturing plant update: see annex.

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

Angela Yao

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

<http://www.tuv.com/safety> E-mail: markcheck@tuv.com

Fax: +49 221 806-3935

Anlage Fertigungsstättenliste
/Attachment List of Factories



PV 50536079 0001

Anlagenrevision / Annex revision

2

1 ALTERNATIVE ENERGY (AE) SOLAR
CO., LTD.
No. 26, Jingyi Road,
Hongze Economic Development Zone,
Huai'an,
223100 Jiangsu
P.R. China

A large, light blue watermark of the TÜVRheinland logo is centered on the page. It consists of a stylized triangle above the text "TÜVRheinland" with a registered trademark symbol.

TÜVRheinland

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

Datum / Date 21.03.2022



Zertifizierungsstelle
/ Certification Body

A handwritten signature in blue ink, appearing to read "Angela Yao".

Angela Yao