

Zertifikat

Certificate

Zertifikat Nr. *Certificate No.*
PV 50542224

Blatt *Sheet*
0001

Ihr Zeichen *Client Reference*
Q. H

Unser Zeichen *Our Reference*
01-SYM-CN22I FYR 001

Ausstellungsdatum *Date of Issue*
10. 05. 2022
(day/mo/yr)

Genehmigungsinhaber *License Holder*
Chint New Energy Technology
Co., Ltd.
No. 1 Ji sheng Road,
Ji anshan New Zone
Hai ni ng
314415 Zhej i ang
P. R. Chi na

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 Modul e

Type Desi gnati on:

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

With mono c-Si cells:

CHSM6612M(DG)-xxx (xxx=310-360, in steps of 5, 72 cells)

CHSM6612M(DG)/F-xxx (xxx=310-360, in steps of 5, 72 cells)

CHSM72M(DG)-B-xxx (xxx=345-400, in steps of 5, 72 cells)

CHSM60M(DG)-B-xxx (xxx=285-330, in steps of 5, 60 cells)

CHSM72M(DGT)-B-xxx (xxx=340-370, in steps of 5, 72 cells)

CHSM60M(DGT)-B-xxx (xxx=280-305, in steps of 5, 60 cells)

CHSM72M(DG)/F-B-xxx (xxx=345-400, in steps of 5, 72 cells)

CHSM60M(DG)/F-B-xxx (xxx=285-330, in steps of 5, 60 cells)

CHSM72M(DGT)/F-B-xxx
(xxx=340-370, in steps of 5, 72 cells)

CHSM60M(DGT)/F-B-xxx
(xxx=280-305, in steps of 5, 60 cells)

With ½ cut mono c-Si cells:

CHSM72M(DG)-BH-xxx (xxx=365-455, in steps of 5, 144 cells)

CHSM60M(DG)-BH-xxx (xxx=305-380, in steps of 5, 120 cells)

Continued on Page 0002

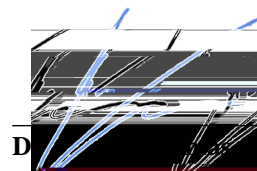
Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above mentioned requirements, the production is subject to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

Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

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

Fax: +49 221 806-3935



D. ... zam

Zertifikat Nr.
50542224

Blatt
0002

Ihr Zeichen
Q. H

Unser Zeichen
01-SYM-CN22I FYR 001

Ausstellungsdatum
10. 05. 2022

Zertifikat Nr.
50542224

Blatt
0003

Ihr Zeichen
Q. H

Unser Zeichen
01-SYM-CN22I FYR 001

Ausstellungsdatum
10. 05. 2022 (day/mo/yr)



Geprüft nach

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 0002

CHSM72M(DG)-BH-xxx
(xxx=515-555, in steps of 5, 144 cells)
CHSM72M(DG)/F-BH-xxx
(xxx=515-555, in steps of 5, 144 cells)
CHSM66M(DGT)-BH-xxx
(xxx=465-495, in steps of 5, 132 cells)
CHSM66M(DGT)/F-BH-xxx
(xxx=465-495, in steps of 5, 132 cells)
CHSM66M(DG)-BH-xxx
(xxx=475-510, in steps of 5, 132 cells)
CHSM66M(DG)/F-BH-xxx
(xxx=475-510, in steps of 5, 132 cells)
CHSM54M(DG)-BH-xxx
(xxx=390-415, in steps of 5, 108 cells)
CHSM54M(DG)/F-BH-xxx
(xxx=390-415, in steps of 5, 108 cells)
CHSM66M(DG)/F-BH-xxx

Zertifikat Nr.
50542224

Blatt
0004

Ihr Zeichen
Q. H

Unser Zeichen
01-SYM-CN22I FYR 001

Ausstellungsdatum
10. 05. 2022

Zertifikat

Certificate

Zertifikat Nr. *Certificate No.*
PV 50542224

Blatt *Sheet*
0005

Ihr Zeichen *Client Reference*
Q. H

Unser Zeichen *Our Reference*
01-SYM-CN22I FYR 001

Ausstellungsdatum *Date of Issue*
10. 05. 2022
(day/mo/yr)

Genehmigungsinhaber *License Holder*
Chint New Energy Technology
Co., Ltd.
No. 1 Ji sheng Road,
Jianshan New Zone
Hai ning
314415 Zheji ang
P. R. Chi na

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

Continuation of Page 0004
CHSM72N(DG)/F-BH-xxx
(xxx=550-565, in steps of 5, 144 cells)
CHSM54N(DG)/F-BH-xxx
(xxx=405-425, in steps of 5, 108 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)

Condi ti ons:

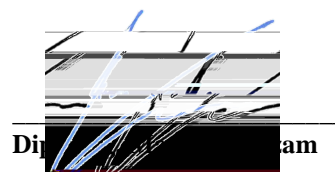
The product test is voluntarily according to technical regulations. Any change of the design, materials, components or processing may require the repetition of some of the qualification tests in order to retain type approval.

The certificate is valid until 09 May 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



Zertifikat

Certificate

Zertifikat Nr. *Certificate No.* Blatt *Sheet*
PV 50542224 0006

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum <i>Date of Issue</i>
6627 721.6(2Re1 w q fer t1 w q o lat1 w q est r1 w q evish w q on -2.4)121.6(26f)TJ	01-SYM-CN22 IFYP_002	24.06.2022

(day/mo/yr)
170.0annex)TJ

ETlis

Genehmiiureee



Geprüft nach

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 0001-0005

In addition:

Type Designations:

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

With ½ cut of N-type mono c-Si cells:

CHSM60N (DG) /F-BH-xxx

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

Remarks:

- Manufacturing plant update: See annex.

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
PV 50542224

Blatt Sheet
0008

Ihr Zeichen Client Reference
Q.H

Unser Zeichen Our Reference
01-SYM-CN22IFYR 012

Ausstellungsdatum Date of Issue
22.11.2022 (day/mo/yr)

Genehmigungsinhaber License Holder
Chint New Energy Technology
Co., Ltd.
No. 1 Jisheng Road,
Jianshan New Zone
Haining
314415 Zhejiang
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 1111253584

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 / Product Identification

Lizenzentgelte - Einheit

Certified Product (Product Identification)

License Fee - Unit

PV Module

Same as Page 0001-0007

In addition:

Type Designations:

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

With ½ cut mono c-Si cells:

CHSM60M(DG)/F-HC-xxx

(xxx=450-460, in steps of 5, 120 cells)

CHSM54M(DG)/F-HC-xxx

(xxx=405-415, in steps of 5, 108 cells)

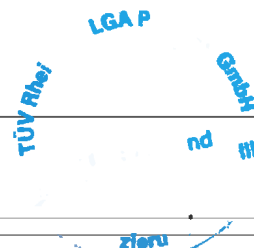
With ½ cut of N-type mono c-Si cells:

CHSM72N(DG)/F-HC-xxx

(xxx=550-580, in steps of 5, 144 cells)

CHSM60N(DG)/F-HC-xxx

(xxx=460-480, in steps of 5, 120 cells)



Zertifikat

Certificate



Zertifikat Nr. Certificate No. PV 50542224	Blatt Sheet 0009	Ausstellungsdatum Date of Issue 08.12.2022 (day/month/yr)
Ihr Zeichen Client Reference Q.H	Unser Zeichen Our Reference 01-SYM-CN22IFYR 014	

Genehmigungsinhaber License Holder Shint New Energy Technology	Fertigungsstätte Manufacturing Plant Refer to latest revision
--	---

Co., Ltd. of the annex list of factories
No. 1 Jisheng Road,
Jianshan New Zone
Haining
314415 Zhejiang
P.R. China

Prüfzeichen Test Mark
CERTIFIED
TÜV Rheinland
www.tuv.com
ID 1111253584

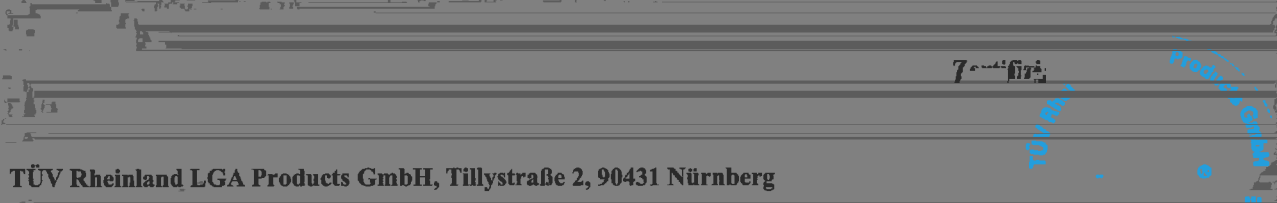
- Geprüft nach Tested acc. to**
- IEC 61215-1:2016
 - IEC 61215-1-1:2016
 - IEC 61215-2:2016
 - IEC 61730-1:2016
 - IEC 61730-2:2016
 - EN 61215-1:2016
 - EN 61215-1-1:2016
 - EN 61215-2:2017
 - EN IEC 61730-1:2018
 - EN IEC 61730-2:2018

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

PV Module
Same as Page 0001-0008

In addition:
Type Designations:
Max. System Voltage: up to 1500 VDC (Voc at STC):
With ½ cut mono c-Si cells:
CHSM78M(DG)/F-BH-xxx (xxx=580, 156 cells)
With ½ cut of N-type mono c-Si cells:
CHSM72N(DGT)/F-BH-xxx
(xxx=525-565, in steps of 5, 144 cells)
CHSM60N(DGT)/F-BH-xxx
(xxx=440-470, in steps of 5, 120 cells)
CHSM54N(DGT)/F-BH-xxx



TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

L-In

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
PV 50542224

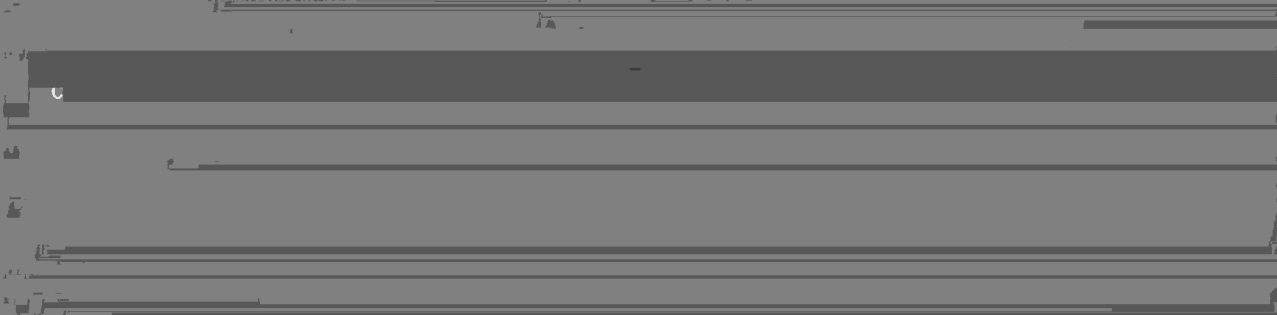
Blatt *Sheet*
0011

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum <i>Date of Issue</i>	<i>(day/mo/yr)</i>
Q.H	01-SYM-CN22IFYR 017	09.02.2023	

Genehmigungsinhaber *License Holder*
Chint New Energy Technology
Co., Ltd.
No. 1 Jisheng Road,
Jianshan New Zone
Haining
314415 Zhejiang
P.R. China

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

Prüfzeichen <i>Test Mark</i>	Geprüft nach <i>Tested acc. to</i>
	IEC 61215-1:2016
	IEC 61215-1-1:2016



TÜVRheinland®

www.tuv.com
ID 1111253584

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 0001-0010

In addition:

Type Designations:

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

With ½ cut mono c-Si cells:

CHSM72M(DG)-BH-xxx (xxx=560-565, in steps of 5, 144 cells)

CHSM72M(DG)/F-BH-xxx

(xxx=560-565, in steps of 5, 144 cells)

CHSM66M(DG)-BH-xxx (xxx=515, 132 cells)

CHSM66M(DG)/F-BH-xxx (xxx=515, 132 cells)

CHSM60M(DG)/F-BH-xxx (xxx=470, 120cells)

CHSM54M(DG)-BH-xxx (xxx=420, 108 cells)

CHSM54M(DG)/F-BH-xxx (xxx=420, 108 cells)

Continued on Page 0012





Zertifikat

Certificate

Zertifikat Nr. Certificate No.
PV 50542224

Blatt Sheet
0012

Ihr Zeichen Client Reference
Q.H

Unser Zeichen Our Reference
01-SYM-CN22IFYR 017

Ausstellungsdatum
09.02.2023

Date of Issue
(day/mo/yr)

Genehmigungsinhaber License Holder
Chint New Energy Technology
Co., Ltd.
No. 1 Jisheng Road,
Jianshan New Zone
Haining
314415 Zhejiang
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

CERTIFIED

www.tuv.com
ID 1111253584

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



Zertifikat

Certificate



Zertifikat Nr. Certificate No.
PV 50542224

Blatt Sheet
0013

Ihr Zeichen Client Reference
Q.H

Unser Zeichen Our Reference
01-SYM-CN22IFYR 028

Ausstellungsdatum Date of Issue
17.05.2023 (day/mo/yr)

Genehmigungsinhaber License Holder
Chint New Energy Technology
Co., Ltd.
No. 1 Jisheng Road,
Jianshan New Zone
Haining
314415 Zhejiang
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

CERTIFIED

www.tuv.com
ID 1111253564

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 0001-0012

In addition:

Type Designation:

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

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

CHSM54N(DGT) (BLH) /F-BH-xxx

(xxx=395-420, in steps of 5, 108 cells)

CHSM48N(DGT) /F-BH-xxx

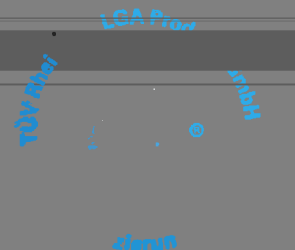
(xxx=345-380, in steps of 5, 96 cells)

CHSM72RN(DG) /F-BH-xxx

(xxx=590-605, in steps of 5, 144 cells)

CHSM54RN(DG) /F-BH-xxx

(xxx=445-450, in steps of 5, 108 cells)



Zertifikat

Certificate

Zertifikat Nr. Certificate No.
PV 50542224

Blatt Sheet
0014

Ihr Zeichen Client Reference
Q.H

Unser Zeichen Our Reference
01-SYM-CN22IFYR 034

Ausstellungsdatum Date of Issue
12.07.2023 (day/mo/yr)

Genehmigungsinhaber License Holder
Chint New Energy Technology
Co., Ltd.
No. 1 Jisheng Road,
Jianshan New Zone
Haining
314415 Zhejiang
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 61215-1:2016
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 0001-0013

In addition:

Type Designation:

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

With ½ cut of N-type mono c-Si cells:

CHSM72N (DG) /F-BH-xxx
(xxx=590-610, in steps of 5, 144 cells)

CHSM60N (DG) /F-BH-xxx
(xxx=490-505, in steps of 5, 132 cells)

CHSM54N (DG) /F-BH-xxx
(xxx=440-455, in steps of 5, 108 cells)

CHSM72N (DG) /F-HC-xxx
(xxx=585-610, in steps of 5, 144 cells)

CHSM60N (DG) /F-HC-xxx
(xxx=485-505, in steps of 5, 132 cells)

CHSM54N (DG) /F-HC-xxx
(xxx=440-455, in steps of 5, 108 cells)

Continued on Page 0015

*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 50542224

Blatt Sheet
0015

Ihr Zeichen Client Reference
Q.H

Unser Zeichen Our Reference
01-SYM-CN22IFYR 034

Ausstellungsdatum Date of Issue
12.07.2023 (day/mo/yr)

Genehmigungsinhaber License Holder
Chint New Energy Technology
Co., Ltd.
No. 1 Jisheng Road,
Jianshan New Zone
Haining
314415 Zhejiang
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 61215-1:2016
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 0014

CHSM72N(DGT)/F-BH-xxx
(xxx=570-600, in steps of 5, 144 cells)

CHSM60N(DGT)/F-BH-xxx
(xxx=475-500, in steps of 5, 132 cells)

CHSM54N(DGT)/F-BH-xxx
(xxx=425-450, in steps of 5, 108 cells)

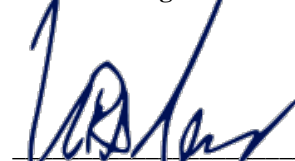
Remarks:

- 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.*

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

**Anlage Fertigungsstättenliste
/Attachment List of Factories**

PV 50542224 0001

Anlagenrevision / Annex revision

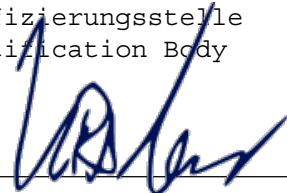
6

- | | |
|---|--|
| <p>1 Chint New Energy Technology
Co., Ltd.
No. 1 Jisheng Road,
Jianshan New Zone
Haining
314415 Zhejiang
P.R. China</p> <p>3 Chint New Energy Technology
(Jiuquan) Co.,Ltd.
15 Jingwu Road, Jiuquan economic
and Technological Development
Zone, Suzhou District, Jiuquan City,
Gansu
P.R. China</p> <p>5 M.L.T. Solar Energy Product Co.,Ltd.
88/1 Moo. 9 Ko khanun Phanomsarakham
Chachoengsao 24120
Thailand</p> <p>7 Suzhou Akcome Optronics Science
& Technology Co., Ltd.
No.110, West Jintang Rd, Zhangjiagang
Economic Development Zone,
Zhangjiagang City,
215618 Jiangsu
P.R. China</p> | <p>2 Chint New Energy Technology (Yancheng)
Co.,Ltd.
No.1 Tonghui Road, Dafeng District,
Yancheng City,
Jiangsu
P.R. China</p> <p>4 Chint Solar (HaiNing) Co., Ltd.
No. 2 Jisheng Road, Jianshan New Zone,
Haining
314415 Zhejiang
P.R. China</p> <p>6 Songyuan New Energy Technology
Co.,Ltd.
No.2211,Jiangye Avenue,
Yadahong Enterprise Service Center,
Ningjiang District,Songyuan,
Jilin
P.R. China</p> <p>8 Chint Solar (Yancheng) Co..Ltd.
No.8 Fengyang Road, Dafeng District,
Yancheng City,
Jiangsu
P.R. China</p> |
|---|--|

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

Datum / Date 10.05.2022

Zertifizierungsstelle
/ Certification Body


Dipl.-Ing. (FH) Tim Kirschner