

NingBo Deye Inverter Technology
Co., Ltd.
Ji Dehai

Date : 28.02.2023
Our ref. : Kese 01
Your ref.: Ji Dehai

No. 26 South YongJiang Road, Daqi,
Beilun NingBo,
315800 Zhejiang
P.R. China

Ref : R TÜV-Bauart-Zeichen o. Akkred. Nr.

Type of Equipment : Hybrid Inverter
Model Designation : See Certificate
Certificate No. : R 50576271 0001
Report No. : CN23E0LA 001

Dear Ji Dehai,

The above specified equipment has been tested and found to be in accordance with the relevant requirements.

Please find enclosed your certificate as specified above.

If cancellation of the certificate is submitted by 15 November in a given year, no fee will be charged for the following year.

The certificate is issued with the reservation that the license holder applies all information required in § 6 of the ProdSG related to name and address of the manufacturer or his authorized representative / importer, including their respective contact addresses on the product prior to marketing of the product in the European Economic Area. In case you have a change regarding your involved local representative for the certificate, please inform us in due time.

With kind regards,

Certification Body



Bruce Li

Enclosure

证书的详细资料请登陆www.certipedia.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
R 50576271

Blatt Sheet
0001

Ihr Zeichen Client Reference
Ji Dehai

Unser Zeichen Our Reference
01-Kese-CN23E0LA 001

Ausstellungsdatum Date of Issue
28.02.2023 (day/mo/yr)

Genehmigungsinhaber License Holder
NingBo Deye Inverter Technology Co., Ltd.
No. 26 South YongJiang Road, Daqi, Beilun NingBo, 315800 Zhejiang P.R. China

Fertigungsstätte Manufacturing Plant
NingBo Deye Inverter Technology Co., Ltd.
No. 26 South YongJiang Road, Daqi, Beilun NingBo, 315800 Zhejiang P.R. China

Prüfzeichen Test Mark



Bauart geprüft
Sicherheit
Regelmäßige
Produktions-
überwachung

www.tuv.com
ID 111126567

Geprüft nach Tested acc. to

IEC 62109-1:2010
IEC 62109-2:2011
EN 62109-1:2010
EN 62109-2:2011

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

**Lizenzentgelte - Einheit
License Fee - Unit**

PV-Wechselrichter (Hybrid Inverter)

Type Designation : SUN-xK-SG01LP1-EU 12
(x=12, 14, 16)

For PV String input side : See below

Vmax PV [Vd.c.] : 500

Isc PV [Ad.c.] : 44*3

MPPT Voltage Range [Vd.c.] : 150-425

MPPT Full Power Voltage Range [Vd.c.] : 250-425

Max.Input Current [Ad.c.] : 26*3

Overvoltage Category (OVC) : II

For Battery side : See below

Voltage range [Vd.c.] : 40-60

Max.charge Current [Ad.c.] : 220 250 290

Max.discharge Current [Ad.c.] : 220 250 290

Overvoltage Category (OVC) : II

Battery type : Li-Ion

continued on page 0002

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ANLAGE (Appendix) : 1.0

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.



Zertifizierungsstelle

Bruce Li
Bruce Li

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.
R 50576271

Blatt Sheet
0002

Ihr Zeichen Client Reference
Ji Dehai

Unser Zeichen Our Reference
01-Kese-CN23E0LA 001

Ausstellungsdatum Date of Issue
28.02.2023 (day/mo/yr)

Genehmigungsinhaber License Holder

NingBo Deye Inverter Technology Co., Ltd.
No. 26 South YongJiang Road, Daqi, Beilun NingBo, 315800 Zhejiang P.R. China

Fertigungsstätte Manufacturing Plant

NingBo Deye Inverter Technology Co., Ltd.
No. 26 South YongJiang Road, Daqi, Beilun NingBo, 315800 Zhejiang P.R. China

Prüfzeichen Test Mark



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www.tuv.com
ID 1111265657

Geprüft nach Tested acc. to

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

**Lizenzentgelte - Einheit
License Fee - Unit**

PV-Wechselrichter (Hybrid Inverter)

As page 0001 continuation

For On-grid port	: See below
Rated Output Voltage [Va.c.]	: L/N/PE, 220/230
Rated Output Frequency [Hz]	: 50/60
Rated Output Power [kW]	: 12 14 16
Max. Output Apparent Power [kVA]	: 13.2 15.4 17.6
Max. Output Current [Aa.c.]	: 54.5/52.2 63.6/60.9 72.7/69.6
Rated Output Current [Aa.c.]	: 60/57.4 70/67 80/76.5

For GEN Port

	: See below
Rated Input Voltage [Va.c.]	: L/N/PE, 220/230
Rated Input Power [kW]	: 12 14 16
Rated Input Frequency [Hz]	: 50/60
Rated Input Current [Aa.c.]	: 54.5/52.2 63.6/60.9 72.7/69.6

continued on page 0003

ANLAGE (Appendix): 1.0

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
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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

Bruce Li

Bruce Li

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
R 50576271

Blatt Sheet
0003

Ihr Zeichen Client Reference
Ji Dehai

Unser Zeichen Our Reference
01-Kese-CN23E0LA 001

Ausstellungsdatum Date of Issue
28.02.2023 (day/mo/yr)

Genehmigungsinhaber License Holder
NingBo Deye Inverter Technology
Co., Ltd.
No. 26 South YongJiang Road, Daqi,
Beilun NingBo,
315800 Zhejiang
P.R. China

Fertigungsstätte Manufacturing Plant
NingBo Deye Inverter Technology
Co., Ltd.
No. 26 South YongJiang Road, Daqi,
Beilun NingBo,
315800 Zhejiang
P.R. China

Prüfzeichen Test Mark



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www.tuv.com
ID 1111265657

Geprüft nach Tested acc. to

IEC 62109-1:2010
IEC 62109-2:2011
EN 62109-1:2010
EN 62109-2:2011

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

**Lizenzentgelte - Einheit
License Fee - Unit**

PV-Wechselrichter (Hybrid Inverter)

As page 0002 continuation
For all models:

Protective Class : Class I
Ingress Protection (IP) : IP65
Pollution degree (PD) : PD3
Operating Temperature [°C] : -40 to 60 (> 45 derating)
Altitude [m] : 2000
Type of Inverter : Non-isolated

Remark:

The installation has to be carried out according to the attached installation instruction.
Any additional requirements in countries where the product is going to be marketed have to be considered additionally.

ANLAGE (Appendix): 1.0

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
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TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

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Zertifizierungsstelle

Bruce Li

Bruce Li

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
R 50576271

Blatt Sheet
0004

Ihr Zeichen Client Reference
Ji Dehai

Unser Zeichen Our Reference
01-zhoudav-CN23E0LA 003

Ausstellungsdatum
11.12.2023

Date of Issue
(day/mo/yr)

Genehmigungsinhaber License Holder

NingBo Deye Inverter Technology
Co., Ltd.
No. 26 South YongJiang Road, Daqi,
Beilun NingBo,
315800 Zhejiang
P.R. China

Fertigungsstätte Manufacturing Plant

NingBo Deye Inverter Technology
Co., Ltd.
No. 26 South YongJiang Road, Daqi,
Beilun NingBo,
315800 Zhejiang
P.R. China

Prüfzeichen Test Mark



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www.tuv.com
ID 1111265657

Geprüft nach Tested acc. to

IEC 62109-1:2010
IEC 62109-2:2011
EN 62109-1:2010
EN 62109-2:2011

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

PV-Wechselrichter (Hybrid Inverter)

As pages 0001-0003 change
Type Designation

: SUN-xK-SG01LP1-EU
(x can be 12, 14, 16
to indicate power in kw)

3

Updated technical data as below:

For on-grid port : See below
Rated Output Power [kW] : 1) 12 2) 14 (13.8*)
3) 16 (13.8*)
Max. Output Apparent Power [kVA] : 1) 13.2 2) 15.4 (13.8*)
3) 17.6 (13.8*)
Max. Output Current [Aa.c.] : 1) 60/57.4 2) 70/67 (60*)
3) 80/76.5 (60*)
Rated Output Current [Aa.c.] : 1) 54.5/52.2
2) 63.6/60.9 (60*)
3) 72.7/69.6 (60*)

Continued on page 0005

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ANLAGE (Appendix): 1.1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
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Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

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A. Chen

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50576271

Blatt *Sheet*
0005

Ihr Zeichen *Client Reference*
Ji Dehai

Unser Zeichen *Our Reference*
01-zhoudav-CN23E0LA 003

Ausstellungsdatum
11.12.2023

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*

NingBo Deye Inverter Technology
Co., Ltd.
No. 26 South YongJiang Road, Daqi,
Beilun NingBo,
315800 Zhejiang
P.R. China

Fertigungsstätte *Manufacturing Plant*

NingBo Deye Inverter Technology
Co., Ltd.
No. 26 South YongJiang Road, Daqi,
Beilun NingBo,
315800 Zhejiang
P.R. China

Prüfzeichen *Test Mark*



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www.tuv.com
ID 1111265657

Geprüft nach *Tested acc. to*

IEC 62109-1:2010
IEC 62109-2:2011
EN 62109-1:2010
EN 62109-2:2011

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

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

PV-Wechselrichter (Hybrid Inverter)

As page 0004 continuation

For GEN port

: See below

Rated Input Power [kW]

: 1) 12 2) 14 (13.8*)
3) 16 (13.8*)

Rated Input Current [Aa.c.]

: 1) 54.5/52.2 2) 63.6/60.9 (60*)
3) 72.7/69.6 (60*)

Note

*:Derating to 13.8kW in South Africa

*:Derating to 60A in South Africa

Remark(s)

The installation has to be carried out according to the attached installation instruction.
Any additional requirements in countries where the product is going to be marketed have to be considered additionally.

ANLAGE (Appendix): 1.1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
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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

A. Chen

CERTIFICATE

of Conformity

Low Voltage Directive (EU) 2014/35


Registration No.: AN 50610622 0001
Report No.: CN23E0LA 003
Holder: NingBo Deye Inverter Technology
Co., Ltd.
No. 26 South YongJiang Road, Daqi,
Beilun NingBo,
315800 Zhejiang
P.R. China
Product: PV-Inverter
(Hybrid Inverter)

Type designation listed on the next page

This certificate of conformity is based on an evaluation of a sample of the above-mentioned product. Technical Report and documentation are at the License Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive (EU) 2014/35, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex IV of the Directive.

Certification Body

Date: 2023-12-11


A. Chen



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives/Regulations are complied with. CE

CERTIFICATE

of Conformity

Low Voltage Directive (EU) 2014/35

Registration No.: AN 50610622 0001

Product: PV-Inverter
(Hybrid Inverter)

Identification: Type Designation
SUN-xK-SG01LP1-EU
(x can be 12, 14, 16 to indicate power in kw)

Serial Number: Engineering samples

Remark(s) : Refer to the report CN23E0LA 003
for details.

Issued in conjunction with TÜV Rheinland
license R 50576271 pages 0004-0005.



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives/Regulations are complied with. CE