

Zertifikat *Certificate*

Zertifikatsnummer Certificate No.:

R 50640745 0001

Berichtsnummer Report No.:

CN24ISCO 001

Genehmigungsinhaber License Holder:

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

Fertigungsstätte Manufacturing Site:

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

Prüfzeichen Test Mark:

Geprüft nach Tested according to:

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

Geräteidentifikation
Product Identification

Produkt: PV-Inverter
Product: (Hybrid Inverter)

Modell: Modelle sind auf nächste(r) Seite(n) gelistet
Type: Type designation(s) are listed on the next page(s)

Technische Daten: Refer to next page(s)
Technical Data: ANLAGE (Appendix): 1.0

Gültig ab: 2024-09-20
Valid from:

Zertifizierungsstelle:
Certification body:

Ausstellungsdatum: 2024-09-20
Date of issue:

Angela Yao



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.

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*

Zertifikatsnummer Certificate No.:

R 50640745 0001

Berichtsnummer Report No.:

CN24ISCO 001

Produkt Product: PV-Inverter
(Hybrid Inverter)

Modell Type: Bezeichnung Designation:

1) SUN-5K-SG02LP1-EU-AM2 ; 2) SUN-6K-SG02LP1-EU-AM2 ;
3) SUN-7.6K-SG02LP1-EU-AM2 ; 4) SUN-8K-SG02LP1-EU-AM2 ;
5) SUN-10K-SG02LP1-EU-AM3 ; 6) SUN-12K-SG02LP1-EU-AM3

PV side:

V_{max} PV [Vd.c.] : 500
Max. Input current [Ad.c.] : 1)20*2; 2)20*2; 3)26*2;
4)26*2; 5)26*3; 6)26*3
I_{sc} PV [Ad.c.] : 1)44*2; 2)44*2; 3)44*2;
4)44*2; 5)44*3; 6)44*3
MPPT Voltage Range [Vd.c.] : 150-425
MPPT Full Power Voltage Range [Vd.c.]: 200-425
Overvoltage Category (OVC) : II

Battery side:

Voltage range[Vd.c.] : 40-60
Max.charge/discharge Current[Ad.c.] : 1)120; 2)135; 3)190;
4)190; 5)220; 6)250
Overvoltage Category(OVC) : II
Battery type : Lithium-ion or Lead-acid

On-grid AC side:

Rated Output Volt [Va.c.] : L+N+PE, 220/230
Rated Output Freq. [Hz] : 50/60
Rated Input/Output Power [kW] : 1)5.0; 2)6.0; 3)7.6;
4)8.0; 5)10.0; 6)12.0
Max. Input/Output Apparent Power[kVA]: 1)5.5; 2)6.6; 3)8.36;
4)8.8; 5)11.0; 6)13.2
Rated Input/Output Current.[Aa.c.] : 1)22.8/21.8; 2)27.3/26.1;
3)34.6/33.1; 4)36.4/34.8;
5)45.5/43.5; 6)54.6/52.2
Max. Input/Output Current.[Aa.c.] : 1)22.8/21.8; 2)27.3/26.1;
3)34.6/33.1; 4)36.4/34.8;
5)45.5/43.5; 6)54.6/52.2
Power Factor : 0.8 leading-0.8 lagging
Overvoltage Category (OVC) : III
Max. Continuous AC bypass current
(grid to load) [Aa.c.] : 1)35; 2)40; 3)50;
4)50; 5)60; 6)60

Zertifikat *Certificate*

Zertifikatsnummer *Certificate No.:*

R 50640745 0001

Berichtsnummer *Report No.:*

CN24ISCO 001

Produkt *Product:* PV-Inverter
(Hybrid Inverter)

Modell *Type:* **Bezeichnung** *Designation:*

Off-grid AC side:

Rated Output Volt [Va.c.]	: L+N+PE, 220/230
Rated Output Freq. [Hz]	: 50/60
Rated Output Power [kW]	: 1)5.0; 2)6.0; 3)7.6; 4)8.0; 5)10.0; 6)12.0
Rated Output Current.[Aa.c.]	: 1)22.8/21.8; 2)27.3/26.1; 3)34.6/33.1; 4)36.4/34.8; 5)45.5/43.5; 6)54.6/52.2
Max. Output Current.[Aa.c.]	: 1)22.8/21.8; 2)27.3/26.1; 3)34.6/33.1; 4)36.4/34.8, 5)45.5/43.5; 6)54.6/52.2

GEN AC side:

Rated Input Volt [Va.c.]	: L+N+PE, 220/230
Rated Input Freq. [Hz]	: 50/60
Rated Input Power [kW]	: 1)5.0; 2)6.0; 3)7.6; 4)8.0; 5)10.0; 6)12.0
Rated Input Current [Aa.c.]	: 1)22.8/21.8; 2)27.3/26.1; 3)34.6/33.1; 4)36.4/34.8; 5)45.5/43.5; 6)54.6/52.2
Overvoltage Category (OVC)	: III

Protective 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(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.



CERTIFICATE

of Conformity

Low Voltage Directive (EU) 2014/35

Registration No.: AN 50640758 0001
Report No.: CN24ISCO 001
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.

Date: 2024-09-20

Certification Body



Angela Yao



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

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

CERTIFICATE

of Conformity
Low Voltage Directive (EU) 2014/35

Registration No.: AN 50640758 0001

Product: PV-Inverter
(Hybrid Inverter)

Identification: Type Designation
1) SUN-5K-SG02LP1-EU-AM2 ;
2) SUN-6K-SG02LP1-EU-AM2 ;
3) SUN-7.6K-SG02LP1-EU-AM2 ;
4) SUN-8K-SG02LP1-EU-AM2 ;
5) SUN-10K-SG02LP1-EU-AM3 ;
6) SUN-12K-SG02LP1-EU-AM3

Serial No.: 2309274215

Remark(s) : Issued in conjunction with TÜV Rheinland
license R 50640745 0001.



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

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

Zertifikat *Certificate*

Zertifikatsnummer Certificate No.:

R 50640745 0002

Berichtsnummer Report No.:

CN24ISCO 002

Genehmigungsinhaber License Holder:

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

Fertigungsstätte Manufacturing Site:

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

Prüfzeichen Test Mark:

Geprüft nach Tested according to:

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

Geräteidentifikation
Product Identification

Produkt: PV-Inverter
Product: (Hybrid Inverter)

Modell: Modelle sind auf nächste(r) Seite(n) gelistet
Type: Type designation(s) are listed on the next page(s)

Technische Daten: Refer to next page(s)
Technical Data: ANLAGE (Appendix): 1.1

Gültig ab: 2025-06-23
Valid from:

Zertifizierungsstelle:
Certification body:

Ausstellungsdatum: 2025-06-23
Date of issue:


Dean Cao



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.

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*

Zertifikatsnummer *Certificate No.:*

R 50640745 0002

Berichtsnummer *Report No.:*

CN24ISCO 002

Produkt *Product:* PV-Inverter
(Hybrid Inverter)

Modell *Type:* **Bezeichnung** *Designation:*
As R 50640745 0001

Modification : 1) SUN-5K-SG02LP1-EU-AM2 ;
2) SUN-6K-SG02LP1-EU-AM2 ;
3) SUN-7.6K-SG02LP1-EU-AM2 ;
4) SUN-8K-SG02LP1-EU-AM2 ;
5) SUN-10K-SG02LP1-EU-AM3 ;
6) SUN-12K-SG02LP1-EU-AM3

Change 1 : On-grid AC side:
Change Max. Input/Output Current.[Aa.c.]

From:

1)22.8/21.8; 2)27.3/26.1;
3)34.6/33.1; 4)36.4/34.8;
5)45.5/43.5; 6)54.6/52.2

To:

1)25/24 ; 2)30/28.7;
3)38/36.4 ; 4)40/38.3;
5)50/47.9 ; 6)60/57.4

Change 2 : Off-grid AC side:
Change Max. Output Current.[Aa.c.]

From:

1)22.8/21.8 ; 2)27.3/26.1;
3)34.6/33.1 ; 4)36.4/34.8;
5)45.5/43.5 ; 6)54.6/52.2

To:

1)25/24 ; 2)30/28.7;
3)38/36.4 ; 4)40/38.3;
5)50/47.9 ; 6)60/57.4

Addition :
Type Designation : 1) SUN-7.6K-SG02LP1-EU-AM2-P ,
2) SUN-8K-SG02LP1-EU-AM2-P ,
3) SUN-10K-SG02LP1-EU-AM3-P ,
4) SUN-12K-SG02LP1-EU-AM3-P ,



Zertifikat *Certificate*

Zertifikatsnummer *Certificate No.:*

R 50640745 0002

Berichtsnummer *Report No.:*

CN24ISCO 002

Produkt *Product:* PV-Inverter
(Hybrid Inverter)

Modell *Type:* **Bezeichnung** *Designation:*

PV side:

Vmax PV [Vd.c.] : 500

Max. Input current [Ad.c.] : 1)32*2 2)32*2

3)32*3 4)32*3

Isc PV [Ad.c.] : 1)60*2 2)60*2

3)60*3 4)60*3

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

MPPT Full Power Voltage Range [Vd.c.] : 200-425

Overvoltage Category (OVC) : II

Battery side :

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

Max.charge/discharge Current[Ad.c.] : 1)190 2)190

3)220 4)250

Overvoltage Category(OVC) : II

Battery type : Lithium-ion or Lead-acid

On-grid AC side:

Rated Output Volt [Va.c.] : L+N+PE 220/230

Rated Output Freq. [Hz] : 50/60

Rated Input/Output Power [kW] : 1)7.6 2)8.0

3)10.0 4)12.0

Max. Input/Output Apparent Power[kVA]: 1)8.36 2)8.8

3)11.0 4)13.2

Rated Input/Output Current.[Aa.c.] : 1)34.6/33.1 2)36.4/34.8

3)45.5/43.5 4)54.6/52.2

Max. Input/Output Current.[Aa.c.] : 1)38/36.4 2)40/38.3

3)50/47.9 4)60/57.4

Power Factor : 0.8 leading-0.8 lagging

Overvoltage Category (OVC) : III

Max. Continuous AC bypass current
(grid to load) [Aa.c.]

: 1)50,

2)50,

3)60,

4)60,

Off-grid AC side :

Rated Output Volt [Va.c.] : L+N+PE 220/230

Rated Output Freq. [Hz] : 50/60

Rated Output Power [kW] : 1)7.6, 2)8.0,

3)10.0, 4)12.0

Rated Output Current.[Aa.c.] : 1)34.6/33.1 2)36.4/34.8

3)45.5/43.5 4)54.6/52.2

Max. Output Current.[Aa.c.] : 1)38/36.4 2)40/38.3

3)50/47.9 4)60/57.4

GEN AC side :

Rated Input Volt [Va.c.] : L+N+PE 220/230

Rated Input Freq. [Hz] : 50/60

Rated Input Power [kW] : 1)7.6, 2)8.0,



Zertifikat *Certificate*

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R 50640745 0002

Berichtsnummer *Report No.:*

CN24ISCO 002

Produkt *Product:* PV-Inverter
(Hybrid Inverter)

Modell *Type:* **Bezeichnung** *Designation:*

	3)10.0,	4)12.0
Rated Input Current [Aa.c.]	: 1)34.6/33.1	2)36.4/34.8
	3)45.5/43.5	4)54.6/52.2

Overvoltage Category (OVC) : III

Protective 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(s):

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



CERTIFICATE

of Conformity

Low Voltage Directive (EU) 2014/35

Registration No.: AN 50680987 0001
Report No.: CN24ISCO 002
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.

Date: 2025-06-23

Certification Body



Dean Cao



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

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

CERTIFICATE

of Conformity

Low Voltage Directive (EU) 2014/35

Registration No.: AN 50680987 0001

Product: PV-Inverter
(Hybrid Inverter)

Identification: Type Designation

- 1) SUN-5K-SG02LP1-EU-AM2
- 2) SUN-6K-SG02LP1-EU-AM2
- 3) SUN-7.6K-SG02LP1-EU-AM2
- 4) SUN-8K-SG02LP1-EU-AM2
- 5) SUN-10K-SG02LP1-EU-AM3
- 6) SUN-12K-SG02LP1-EU-AM3
- 7) SUN-7.6K-SG02LP1-EU-AM2-P
- 8) SUN-8K-SG02LP1-EU-AM2-P
- 9) SUN-10K-SG02LP1-EU-AM3-P
- 10) SUN-12K-SG02LP1-EU-AM3-P

Remark(s): Issued in conjunction with TÜV Rheinland
license R 50640745 0001-0002



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

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