

Zertifikat *Certificate*

Zertifikatsnummer Certificate No.:

R 50633760 0001

Berichtsnummer Report No.:

CN2407S7 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 62109-1:2010
EN 62109-1:2010
IEC 62109-2:2011
EN 62109-2:2011

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: 2024-06-06
Valid from:

Zertifizierungsstelle:
Certification body:

Ausstellungsdatum: 2024-06-06
Date of issue:


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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

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Produkt Product: PV-Inverter
(Hybrid inverter)

Modell Type: Bezeichnung Designation:

1) SUN-14K-SG05LP3-EU-SM2 , 2) SUN-15K-SG05LP3-EU-SM2 ,
3) SUN-16K-SG05LP3-EU-SM2 , 4) SUN-18K-SG05LP3-EU-SM2 ,
5) SUN-20K-SG05LP3-EU-SM2

PV side

V_{max} PV [Vd.c.] : 800
 Max. Input current [Ad.c.] : 36+20
 I_{sc} PV [Ad.c.] : 54+30
 MPPT Voltage Range [Vd.c.] : 160-650
 MPPT Full Power Voltage Range [Vd.c.]: 1)330-650, 2)350-650, 3)380-650,
 4)420-650, 5)470-650
 Overvoltage Category (OVC) : II

Battery side

Voltage range[Vd.c.] : 40-60
 Max.charge/discharge Current[Ad.c.] : 1)260/260, 2)280/280, 3)300/300,
 4)330/330, 5)350/350
 Overvoltage Category(OVC) : II
 Battery type : Lithium-ion or Lead-acid

On-grid AC side

Rated Output Volt [Va.c.] : 3L+N+PE, 220/380, 230/400
 Rated Output Freq. [Hz] : 50/60
 Rated Input/Output Power [kW] : 1)14, 2)15, 3)16, 4)18, 5)20
 Max. Input/Output Apparent Power[kVA]: 1)15.4, 2)16.5, 3)17.6, 4)19.8, 5)22
 Rated Input/Output Current.[Aa.c.] : 1)21.3/20.3, 2)22.8/21.8,
 3)24.3/23.2, 4)27.3/26.1,
 5)30.4/29.0
 Max. Input/Output Current.[Aa.c.] : 1)21.3/20.3, 2)22.8/21.8,
 3)24.3/23.2, 4)27.3/26.1,
 5)30.4/29.0
 Power Factor : 0.8 leading-0.8 lagging
 Overvoltage Category (OVC) : III
 Max. Continuous AC bypass current (grid to load) [Aa.c.]: 70

Off-grid AC side

Rated Output Volt [Va.c.] : 3L+N+PE, 220/380, 230/400
 Rated Output Freq. [Hz] : 50/60
 Rated Output Power [kW] : 1)14, 2)15, 3)16, 4)18, 5)20
 Rated Output Current.[Aa.c.] : 1)21.3/20.3, 2)22.8/21.8,
 3)24.3/23.2, 4)27.3/26.1,
 5)30.4/29.0
 Max. Output Current.[Aa.c.] : 1)21.3/20.3, 2)22.8/21.8,
 3)24.3/23.2, 4)27.3/26.1,
 5)30.4/29.0

GEN AC side

Rated Input Volt [Va.c.] : 3L+N+PE, 220/380, 230/400

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

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

Rated Input Freq. [Hz]	: 50/60
Rated Input Power [kW]	: 1)14, 2)15, 3)16, 4)18, 5)20
Rated Input Current [Aa.c.]	: 1)21.3/20.3, 2)22.8/21.8, 3)24.3/23.2, 4)27.3/26.1, 5)30.4/29.0
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]	: 3000
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.

