

Zertifikat *Certificate*

Zertifikatsnummer *Certificate No.:*

R 50602051 0001

Berichtsnummer *Report No.:*

CN221BOZ 002

Genehmigungsinhaber *License Holder:*

FENECON GmbH
Brunnwiesenstr. 4
94469 Deggendorf
Deutschland

Fertigungsstätte *Manufacturing Site:*

2 Fertigungsstätten auf Folgeseiten
Listing of 2 factories on following pages

Prüfzeichen *Test Mark:*



Type Approved
Safety
Regular Production
Surveillance

www.tuv.com
ID 1111275067

Geprüft nach *Tested according to:*

IEC 62109-1:2010

IEC 62109-2:2011

EN 62109-1:2010

EN 62109-2:2011

Geräteidentifikation

Product Identification

Produkt: PV-Inverter ((Grid-connected Hybrid Inverter))

Product:

Modell: Modelle sind auf nächste(r) Seite(n) gelistet

Type: *Type designation(s) are listed on the next page(s)*

Technische Daten: Refer to the next page(s)

Technical Data:

Gültig ab: 2023-09-19

Valid from:

Zertifizierungsstelle:

Certification body:

Ausstellungsdatum: 2023-09-19

Date of issue:

A. Chen



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

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www.tuv.com

 **TÜVRheinland**[®]
Precisely Right.

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Produkt *Product:*

PV-Inverter
((Grid-connected Hybrid Inverter))

Modell *Type:*

Bezeichnung *Designation:*

For : FHI-20-DAH
 Vmaxpv [Vd.c.] : 1000
 Iscpv [Ad.c.] : 38/38
 MPP Voltage Range [Vd.c.] : 200-850
 MPP Voltage Range at full load [Vd.c.] : 400-850
 Max. Input Current [Ad.c.] : 30/30
 Overvoltage Category (OVC) : II for PV

Rated Output Voltage [Va.c.] : 380/400, 3L/N/PE
 Rated Output Power [kW] : 20
 Rated Output Frequency [Hz] : 50/60
 Max. Output Current [Aa.c.] : 33.3
 Power Factor : 0.80(d) to 0.80(g)
 Overvoltage Category (OVC) : III for AC mains

Backup Rated Output Volt.[Va.c.] : 380/400, 3L/N/PE
 Backup Rated Output Freq.[Hz] : 50/60
 Backup Max.Apparent power[kVA] : 20
 Backup Max.Output Current[A] : 30.3
 Overvoltage Category(OVC) : II for Backup

VMAX BAT[Vd.c.] : 800
 Battery Type : Li-ion battery
 Voltage Range[Vd.c.] : 200-800
 Max.Charge/Discharge Current I_{max}[A] : 50/50
 Overvoltage Category(OVC) : II for Battery

For : FHI-29.9-DAH
 Vmaxpv [Vd.c.] : 1000
 Iscpv [Ad.c.] : 38/38/38
 MPP Voltage Range [Vd.c.] : 200-850
 MPP Voltage Range at full load [Vd.c.] : 450-850
 Max. Input Current [Ad.c.] : 30/30/30
 Overvoltage Category (OVC) : II for PV

Rated Output Voltage [Va.c.] : 380/400, 3L/N/PE
 Rated Output Power [kW] : 29.9
 Max. Output Current [Aa.c.] : 49.8
 Rated Output Frequency [Hz] : 50/60



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Produkt *Product:*

PV-Inverter
((Grid-connected Hybrid Inverter))

Modell *Type:*

Bezeichnung *Designation:*

Power Factor : 0.80(d) to 0.80(g)
Overvoltage Category(OVC) : III for AC mains

Backup Rated Output Volt.[Va.c.] : 380/400, 3L/N/PE
Backup Rated Output Freq.[Hz] : 50/60
Backup Max.Apparent power[kVA] : 29.9
Backup Max. Output Current[A] : 45.5
Overvoltage Category(OVC) : II for Backup

VMAX BAT[Vd.c.] : 800
Battery Type : Li-ion battery
Voltage Range[Vd.c.] : 200-800
Max.Charge/Discharge Current IMAX[A] : 50*2/50*2
Overvoltage Category(OVC) : II for Battery

Protective Class : Class I
Ingress Protection(IP) : IP66
Pollution Degree(PD) : PD3
Operating Temperature[°C] : -35 to 60 (>45 derating)
Altitude[m] : up to 4000
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.



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

Fertigungsstätten *Factories:*

- | | |
|---|----------------|
| 1 | 040-0002356677 |
| 2 | 040-0002028101 |



CERTIFICATE

of Conformity

Low Voltage Directive (EU) 2014/35

Registration No.: AN 50602066 0001
Report No.: CN221BOZ 002
Holder: FENECON GmbH
Brunnwiesenstr. 4
94469 Deggendorf
Deutschland
Product: PV-Inverter
(Grid-connected 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: 2023-09-19



A. Chen



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

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

CERTIFICATE

of Conformity

Low Voltage Directive (EU) 2014/35

Registration No.: AN 50602066 0001

Product: PV-Inverter
(Grid-connected Hybrid Inverter)

Identification: Type Designation
FHI-20-DAH
FHI-29.9-DAH

Serial Number: Engineering samples

Remark(s) : Issued in conjunction with TÜV
Rheinland license R 50602051 0001.



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

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