

CERTIFICATE OF CONFORMITY

CERTIFICATO DI CONFORMITÀ

Issued to: NINGBO AUSTA SOLAR TECH CO., LTD.
Rilasciato a: 1-1, No.136, Haichuan Road, Jiangbei District, Ningbo, Zhejiang, P.R.China

For the product: Grid-Connected Hybrid Inverter
Tipo prodotto:

 or 

Trade name:
Marchio:

Type/Model: AU4KETH, AU5KETH, AU6KETH, AU8KETH, AU10KETH, AU12KETH, AU15KETH
Riferimento modello:

Ratings: See Annex
Dati di targa:

Manufactured by: NINGBO AUSTA SOLAR TECH CO., LTD.
Costruttore: 1-1, No.136, Haichuan Road, Jiangbei District, Ningbo, Zhejiang, P.R.China

Requirements: CEI 0-21:2022-03
Requisiti: *Regola tecnica di riferimento per la connessione di Utenti attivi e passivi alle reti BT delle imprese distributrici di energia elettrica*

The tested models are suitable for installation in systems with a total power greater than 11.08 kW.
I modelli testati sono adatti per l'installazione in sistemi con potenza di uscita maggiore di 11.08 kW.
This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6174560.50
Il presente certificato è rilasciato a causa di un esame da parte di DEKRA, i cui risultati sono riportati in un file riservato n. 6174560.50

The examination has been carried out on one single specimen of the product. The certificate does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

L'esame è stato effettuato su un unico esemplare del prodotto. Questo attestato di conformità è rilasciato sulla base dei risultati di prova riferiti nel rapporto sopra menzionato. La valutazione non include una verifica della produzione di serie né del luogo di produzione.

This Test Certificate expires at the latest on 2029-08-09 or expires upon withdrawal of one of the above mentioned standards.

Il presente certificato di prova scade al più tardi il 2029-08-09 o scade al momento del ritiro di uno dei suddetti standard.

Shanghai, 9 August 2024

Certificate Number: 6174560.01COC

DEKRA Testing and Certification (Shanghai) Ltd.


Cliff Lin
Certification Manager

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PCA-141

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ESA-CER-F021 v4.1

Document no. : 6174560.01COC

Ratings of the testing Hybrid Inverter:

Valutazioni dell'invertitore ibrido di prova:

Ratings of the test product:

Operating temperature range: - 25°C to + 60°C

Protective class: I

Ingress protection rating: IP66

Power factor range (adjustable): 0.8 leading...0.8 lagging

Over Voltage Category: III (AC), II (DC)

AU4KETH:

PV input: max 1000 Vdc, MPPT voltage range: 160~950 Vdc,

nominal operating voltage: 620 Vdc, max 18 A / 18 A,

Isc PV: 23 A / 23 A

Battery: type: Lithium, voltage range: 160~700 Vdc,

max charge / discharge current: 30 A

AC input: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 12.2 A,

max input power 8000 VA

AC output: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 6.7 A,

max continuous apparent power 4400 VA

EPS: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 6.1 A,

max continuous apparent power 4000 VA

AU5KETH:

PV input: max 1000 Vdc, MPPT voltage range: 160~950 Vdc,

nominal operating voltage: 620 Vdc, max 18 A / 18 A,

Isc PV: 23 A / 23 A

Battery: type: Lithium, voltage range: 160~700 Vdc,

max charge / discharge current: 30 A

AC input: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 15.2 A,

max input power 10000 VA

AC output: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 8.3 A,

max continuous apparent power 5500 VA

EPS: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 7.6 A,

max continuous apparent power 5000 VA

AU6KETH:

PV input: max 1000 Vdc, MPPT voltage range: 160~950 Vdc,

nominal operating voltage: 620 Vdc, max 18 A / 18 A,

Isc PV: 23 A / 23 A

Battery: type: Lithium, voltage range: 160~700 Vdc,

max charge / discharge current: 30 A

AC input: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 18.2 A,

max input power 12000 VA

AC output: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 10 A,

max continuous apparent power 6600 VA

EPS: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 9.1 A,

max continuous apparent power 6000 VA

Document no. : 6174560.01COC

AU8KETH:

PV input: max 1000 Vdc, MPPT voltage range: 160~950 Vdc,
nominal operating voltage: 620 Vdc, max 18 A / 18 A,
Isc PV: 23 A / 23 A
Battery: type: Lithium, voltage range: 160~700 Vdc,
max charge / discharge current: 30 A
AC input: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 24.3 A,
max input power 16000 VA
AC output: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 13.3 A,
max continuous apparent power 8800 VA
EPS: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 12.1 A,
max continuous apparent power 8000 VA

AU10KETH:

PV input: max 1000 Vdc, MPPT voltage range: 160~950 Vdc,
nominal operating voltage: 620 Vdc, max 18 A / 18 A,
Isc PV: 23 A / 23 A
Battery: type: Lithium, voltage range: 160~700 Vdc,
max charge / discharge current: 30 A
AC input: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 30.3 A,
max input power 20000 VA
AC output: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 16.5 A,
max continuous apparent power 11000 VA
EPS: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 15.2 A,
max continuous apparent power 10000 VA

AU12KETH:

PV input: max 1000 Vdc, MPPT voltage range: 160~950 Vdc,
nominal operating voltage: 620 Vdc, max 18 A / 36 A,
Isc PV: 23 A / 46 A
Battery: type: Lithium, voltage range: 160~700 Vdc,
max charge / discharge current: 30 A
AC input: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 36.4 A,
max input power 24000 VA
AC output: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 20 A,
max continuous apparent power 13200 VA
EPS: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 18.2 A,
max continuous apparent power 12000 VA

AU15KETH:

PV input: max 1000 Vdc, MPPT voltage range: 160~950 Vdc,
nominal operating voltage: 620 Vdc, max 18 A / 36 A,
Isc PV: 23 A / 46 A
Battery: type: Lithium, voltage range: 160~700 Vdc,
max charge / discharge current: 30 A
AC input: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 45.5 A,
max input power 30000 VA
AC output: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 25 A,
max continuous apparent power 16500 VA
EPS: 3L/N/PE, 400 / 380 Vac, 50 / 60 Hz, max 22.7 A,
max continuous apparent power 15000 VA

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Type of generating unit:

Tipologia di apparato:

| | | | |
|--|--|--|--|
| Static Conversion Device <i>Dipositivo di conversione statica</i> | Interface Protection <i>Protezione di interfaccia</i> | Interface Protection Device <i>Dispositivo di interfaccia</i> | Rotating Generator Device <i>Dispositivo di generazione rotante</i> |
| Yes/Sì | Yes/Sì | Yes/Sì | No/No |

REMARK: the device is capable to limit the I_{dc} to 0.5% of the nominal current

NOTA: Il dispositivo è in grado di limitare la I_{dc} allo 0.5% della corrente nominale

Hardware version: 100-015xx-01

Versione hardware: 100-015xx-01

Software version: 1.0.0

Versione software: 1.0.0

The battery used for testing with the Hybrid Inverter covered by this certificate:

La batteria utilizzata per i test con l'invertitore ibrido coperto dal presente certificato:

| | | | | | |
|-------------------------|--|-----------|-----------|------------|-----------|
| Manufacturer | NINGBO AUSTA SOLAR TECH CO.,LTD. | | | | |
| Battery Models | LIH5KWh | LIH7.5KWh | LIH10KWh | LIH12.5KWh | LIH15KWh |
| Nominal Voltage | 192 V | 288 V | 384 V | 480 V | 576 V |
| Nominal capacity | 27 Ah | 27 Ah | 27 Ah | 27 Ah | 27 Ah |
| Battery System Capacity | 5.18 kWh | 7.77 kWh | 10.36 kWh | 12.96 kWh | 15.55 kWh |
| Remark: | The CB test certificate No. of the battery: DE 7-0837 The batteries are not integrated into the Hybrid Inverter and must be installed according to the local regulations. | | | | |

Testing Laboratory:

Laboratorio prove:

Testing Laboratory for CEI 0-21:2022-03

DEKRA Testing and Certification (Suzhou) Co., Ltd.

No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China

Accreditation Number: L5313 (CNAS-ILAC)

Testing Laboratory for EMC:

1. TÜV SÜD Certification and Testing (China) Co., Ltd.

Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi, Jiangsu, China

2. Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd.

No.103, Caobao Road, Xuhui District, Shanghai, China

Accreditation Number: L0130 (CNAS-ILAC)

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