

# CERTIFICATE

of conformity with the following European Directives

**Low Voltage Directive 2014/35/EU**

This certifies that below described products of the applicant:

**NINGBO AUSTA SOLAR TECH CO., LTD.**

1-1, NO.136, Haichuan Road, Jiangbei District, Ningbo, Zhejiang,  
P.R.China

comply to the essential requirements of the above mentioned European Directive and the following standards, taking into account the German national deviations:

**Product(s):** Hybrid Inverter  
**Model type(s):** AU3KESL, AU3.6KESL, AU4KESL, AU4.6KESL, AU5KESL, AU6KESL

This certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.

**Certification program:** P31-VA-01 Rev. 02 / 04.20  
**Certification fundamental(s):** EN 62109-1:2010; EN 62109-2:2011; EN 62477-1:2012+A1:2017; EN 62477-1:2012+A12:2021  
**Registered no.:** 44 799 22 406749 - 422  
**Report no.:** 492012892.001; 492012893.001  
**File no.:** PVP11014/23B-07  
PVP11014/23B-08



TÜV NORD CERT GmbH  
Certification Body  
Energy Storage System

Essen, 2023-12-28



TÜV NORD CERT GmbH

Am TÜV 1, D-45307 Essen

[www.tuev-nord-cert.de](http://www.tuev-nord-cert.de)

[prodcert@tuev-nord.de](mailto:prodcert@tuev-nord.de)

Please also pay attention to the information stated overleaf.

 The CE marking may be affixed on the product if all relevant and effective Directives are complied with. 

# ANNEX

Annex 1, Page 1 of 2

to Certificate registration no. 44 799 22 406749 - 422

**Description of product(s):**

| Model No.                               | AU3KE<br>SL               | AU3.6K<br>ESL | AU4KE<br>SL | AU4.6K<br>ESL | AU5KE<br>SL | AU6KE<br>SL |
|---|---------------------------|---------------|-------------|---------------|-------------|-------------|
| PV input parameters:                    |                           |               |             |               |             |             |
| Vmax PV [Vd.c.]                         | 500                       |               |             |               |             |             |
| MPP Voltage Range [Vd.c.]               | 150~450                   |               |             |               |             |             |
| Max. PV Input Current [Ad.c.]           | 18                        | 18/18         |             |               |             |             |
| DC Short-circuit current [Ad.c.]        | 22.5                      | 22.5/22.5     |             |               |             |             |
| Battery parameters:                     |                           |               |             |               |             |             |
| Battery Type                            | Li-ion/Lead-acid          |               |             |               |             |             |
| Battery Voltage Range [Vd.c.]           | 44-57V                    |               |             |               |             |             |
| Max. Charge Current [Ad.c.]             | 75                        | 90            | 100         | 110           | 120         | 120         |
| Max. Discharge Current [Ad.c.]          | 75                        | 90            | 100         | 110           | 120         | 120         |
| AC output (off grid) parameters:        |                           |               |             |               |             |             |
| Rated Output Voltage [Va.c.]            | 1ΦN/PE, 220/230VAC        |               |             |               |             |             |
| Rated Output Frequency [Hz]             | 50/60Hz                   |               |             |               |             |             |
| Max. Output Power [kVA]                 | 3                         | 3.6           | 4           | 4.6           | 5           | 6           |
| Max. Output Current [Aa.c.]             | 15                        | 18            | 20          | 22            | 25          | 27          |
| AC input/output (Grid Side) parameters: |                           |               |             |               |             |             |
| Rated Output Voltage [Va.c.]            | 220/230VAC                |               |             |               |             |             |
| Rated Output Frequency [Hz]             | 50/60Hz                   |               |             |               |             |             |
| Max. input /Output Current [Aa.c.]      | 15                        | 18            | 20          | 22            | 25          | 27          |
| Max. input /Output Power [kVA]          | 3.3                       | 3.96          | 4.4         | 5             | 5.5         | 6           |
| Power Factor cosφ [λ]                   | 0.8 leading – 0.8 lagging |               |             |               |             |             |
| General parameter                       |                           |               |             |               |             |             |



TÜV NORD CERT GmbH  
 Certification Body  
 Energy Storage System

Essen, 2023-12-28

# ANNEX

Annex 1, Page 2 of 2

**to Certificate registration no. 44 799 22 406749 - 422**

|                                |  |
|--------------------------------|--|
| Protective class               | Class I                                      |
| Inverter topology              | Non-isolated                                 |
| Ambient temperature range [°C] | -25 ~ +60°C                                  |
| Full load working temperature  | 45°C   |
| Ingress protection             | IP66   |
| Overvoltage-category           | OVC III (AC Main), OVC II (PV), OVC II (BAT) |

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 3 of test report.



TÜV NORD CERT GmbH  
Certification Body  
Energy Storage System

TÜV NORD CERT GmbH

Am TÜV 1, D-45307 Essen

Essen, 2023-12-28

[www.tuev-nord-cert.de](http://www.tuev-nord-cert.de)

[prodcert@tuev-nord.de](mailto:prodcert@tuev-nord.de)