

# CERTIFICATE OF CONFORMITY

Issued to: Ningbo Sunways Technologies Co., Ltd.  
No. 1, Second Road, Green Industrial Zone, Chongshou Town 315334 Cixi, Ningbo,  
Zhejiang, P.R. China

For the product: Hybrid Inverter

Trade name: **sunways**

Type/Model: STH-3KTL-LSS, STH-3.6KTL-LSS, STH-4KTL-LS, STH-4.6KTL-LS, STH-5KTL-LS,  
STH-6KTL-LS, STH-7.5KTL-LS, STH-8KTL-LS

Ratings: See Annex

Manufactured by: Ningbo Sunways Technologies Co., Ltd.  
No. 1, Second Road, Green Industrial Zone, Chongshou Town 315334 Cixi, Ningbo,  
Zhejiang, P.R. China

Requirements: IEC 61683:1999  
IEC 60068-2-1:2007, IEC 60068-2-2:2007, IEC 60068-2-14:2023, IEC60068-2-30:2005

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6234685.51, 6234685.52.

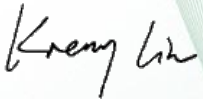
The examination has been carried out on one single specimen of the product. The certificate does not include an assessment of the minilecture's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

This Test Certificate expires at the latest on 2030-11-28 or expires upon withdrawal of one of the above mentioned standards.

Shanghai, 2025-11-28

Number: 6234685.02COC

DEKRA Testing and Certification (Shanghai) Ltd.

  
Kreny Lin  
Certification Manager

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ESA-CER-F021 v4.1



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## Ratings of the products:

| Model                                                                                                                                                                                                         | STH-3KTL-LSS                         | STH-3.6KTL-LSS | STH-4KTL-LS | STH-4.6KTL-LS | STH-5KTL-LS | STH-6KTL-LS | STH-7.5KTL-LS | STH-8KTL-LS |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------|-------------|---------------|-------------|-------------|---------------|-------------|
| PV                                                                                                                                                                                                            |                                      |                |             |               |             |             |               |             |
| Start-up Voltage (V)                                                                                                                                                                                          | 58                                   |                |             |               |             |             |               |             |
| Max. DC Input Voltage (Vdc)                                                                                                                                                                                   | 600                                  |                |             |               |             |             |               |             |
| Rated DC Input Voltage (Vdc)                                                                                                                                                                                  | 360                                  |                |             |               |             |             |               |             |
| MPPT Voltage Range (Vdc)                                                                                                                                                                                      | 80-550                               |                |             |               |             |             |               |             |
| No. of MPP Trackers                                                                                                                                                                                           | 1                                    |                | 2           |               |             |             |               |             |
| No. of DC Inputs per MPPT                                                                                                                                                                                     | 1                                    |                | 1/1         |               |             |             |               |             |
| Max. Input Current (A)                                                                                                                                                                                        | 20                                   |                | 20/20       |               |             |             |               |             |
| Max. Short-circuit Current (A)                                                                                                                                                                                | 25                                   |                | 25/25       |               |             |             |               |             |
| Battery                                                                                                                                                                                                       |                                      |                |             |               |             |             |               |             |
| Battery Type                                                                                                                                                                                                  | Lithium battery (with BMS)/Lead Acid |                |             |               |             |             |               |             |
| Battery Voltage Range (Vdc)                                                                                                                                                                                   | 40-60                                |                |             |               |             |             |               |             |
| Max. Charge Current (A)                                                                                                                                                                                       | 80                                   | 80             | 100         | 100           | 120         | 120         | 160           | 160         |
| Max. Discharge Current (A)                                                                                                                                                                                    | 80                                   | 80             | 100         | 100           | 120         | 120         | 160           | 160         |
| Output (Grid)                                                                                                                                                                                                 |                                      |                |             |               |             |             |               |             |
| Rated Output Power (W)                                                                                                                                                                                        | 3000                                 | 3680           | 4000        | 4600          | 5000        | 6000        | 7500          | 8000        |
| Max. Output Power (W)                                                                                                                                                                                         | 3300                                 | 3680           | 4400        | 5060          | 5500        | 6600        | 8250          | 8800        |
| AC Output Rated Apparent Power (VA)                                                                                                                                                                           | 3000                                 | 3680           | 4000        | 4600          | 5000        | 6000        | 7500          | 8000        |
| Max. Apparent Power (VA)                                                                                                                                                                                      | 3300                                 | 3680           | 4400        | 5060          | 5500        | 6600        | 8250          | 8800        |
| Rated Output Voltage (Vac)                                                                                                                                                                                    | L/N/PE, 220/230                      |                |             |               |             |             |               |             |
| Rated AC Frequency (Hz)                                                                                                                                                                                       | 50/60                                |                |             |               |             |             |               |             |
| AC Output Rated Current (A)                                                                                                                                                                                   | 13                                   | 16             | 17.4        | 20            | 21.7        | 26.1        | 32.6          | 34.8        |
| Max. Output Current (A)                                                                                                                                                                                       | 15                                   | 16             | 20          | 23            | 25          | 30          | 37.5          | 40          |
| Max. Output Overcurrent Protection (A)                                                                                                                                                                        | 50                                   | 50             | 50          | 50            | 80          | 80          | 80            | 80          |
| Power Factor                                                                                                                                                                                                  | 0.8 leading ...0.8 lagging           |                |             |               |             |             |               |             |
| Output (Back-up)                                                                                                                                                                                              |                                      |                |             |               |             |             |               |             |
| Rated Output Power (W)                                                                                                                                                                                        | 3000                                 | 3680           | 4000        | 4600          | 5000        | 6000        | 7500          | 8000        |
| Max. Output Power (W)                                                                                                                                                                                         | 3300                                 | 3680           | 4400        | 5060          | 5500        | 6600        | 8250          | 8800        |
| Back-up Output Rated Apparent Power (VA)                                                                                                                                                                      | 3000                                 | 3680           | 4000        | 4600          | 5000        | 6000        | 7500          | 8000        |
| Max. Apparent Power (VA)                                                                                                                                                                                      | 3300                                 | 3680           | 4400        | 5060          | 5500        | 6600        | 8250          | 8800        |
| Back-up Output Rated Current (A)                                                                                                                                                                              | 13                                   | 16             | 17.4        | 20            | 21.7        | 26.1        | 32.6          | 34.8        |
| Max. Output Current (A)                                                                                                                                                                                       | 15                                   | 16             | 20          | 23            | 25          | 30          | 37.5          | 40          |
| Rated Output Voltage (Vac)                                                                                                                                                                                    | L/N/PE, 220/230                      |                |             |               |             |             |               |             |
| Rated AC Frequency (Hz)                                                                                                                                                                                       | 50/60                                |                |             |               |             |             |               |             |
| General information:                                                                                                                                                                                          |                                      |                |             |               |             |             |               |             |
| Over voltage category: III(Mains), II(PV), Operating temperature range: - 25 °C to + 60 °C, Relative Humidity (%): 0-100, Protective class: I, Ingress protection rating: IP66, Operating Altitude (m): 3000. |                                      |                |             |               |             |             |               |             |

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