

# ATTESTATION 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-4KTL-HT, STH-5KTL-HT, STH-6KTL-HT,  
STH-8KTL-HT, STH-10KTL-HT, STH-12KTL-HT

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: TOR Erzeuger Type A Version 1.2:2022-04-11  
OVE-Richtlinie R 25:2020-03-01

This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6142730.50

The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The Attestation 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.

Arnhem, 5 January 2023

Number: 6142730.01AOC

DEKRA Testing and Certification (Shanghai) Ltd.

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Certification Manager

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## Test basics:

TOR Erzeuger Type A Version 1.2: 2022-04-11

Connection and parallel operation of Type A power generation systems and small-scale generation systems

OVE-Richtlinie R 25: 2020-03-01

Test requirements for generator units to be connected to and operated in parallel with low-voltage distribution networks

- 5.1 Testing the network perturbations
- 5.2 Testing the symmetry behavior of three-phase inverters
- 5.3 Testing the behavior of the generating unit on the network
- 5.4 Testing the automatic activation point
- 5.5 Testing the connection conditions and synchronization
- 5.6 Proof of robustness and dynamic network support

## Ratings of product:

Operating temperature range: - 30°C to + 60°C

Protective class: I

Ingress protection rating: IP65

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

Overvoltage category: III(Mains), II(DC)

Operating altitude: 3000m

Inverter topology: Non-isolated

### STH-4KTL-HT:

PV input: Max 1000 Vdc, MPPT voltage range: 150-850 Vdc, Max 13A/13 A, Isc PV: 18 A/18 A

Battery: Voltage Range 140-750 Vdc, Max charge and discharge current: 25 A, Battery type: Li-Ion

AC output: 3/N/PE 230/400 Vac , 50 Hz, Rated Active Power 4000 W, Max. Apparent Power 4400 VA, Max 6.7 A

### STH-5KTL-HT:

PV input: Max 1000 Vdc, MPPT voltage range: 150-850 Vdc, Max 13A/13 A, Isc PV: 18 A/18 A

Battery: Voltage Range 140-750 Vdc, Max charge and discharge current: 25 A, Battery type: Li-Ion

AC output: 3/N/PE 230/400 Vac , 50 Hz, Rated Active Power 5000 W, Max. Apparent Power 5500 VA, Max 8.3 A

### STH-6KTL-HT:

PV input: Max 1000 Vdc, MPPT voltage range: 200-850 Vdc, Max 13A/13 A, Isc PV: 18 A/18 A

Battery: Voltage Range 140-750 Vdc, Max charge and discharge current: 25 A, Battery type: Li-Ion

AC output: 3/N/PE 230/400 Vac , 50 Hz, Rated Active Power 6000 W, Max. Apparent Power 6600 VA, Max 10.0 A

### STH-8KTL-HT:

PV input: Max 1000 Vdc, MPPT voltage range: 200-850 Vdc, Max 13A/13 A, Isc PV: 18 A/18 A

Battery: Voltage Range 140-750 Vdc, Max charge and discharge current: 25 A, Battery type: Li-Ion

AC output: 3/N/PE 230/400 Vac , 50 Hz, Rated Active Power 8000 W, Max. Apparent Power 8800 VA, Max 13.3 A

### STH-10KTL-HT:

PV input: Max 1000 Vdc, MPPT voltage range: 200-850 Vdc, Max 13A/13 A, Isc PV: 18 A/18 A

Battery: Voltage Range 140-750 Vdc, Max charge and discharge current: 25 A, Battery type: Li-Ion

AC output: 3/N/PE 230/400 Vac , 50 Hz, Rated Active Power 10000 W, Max. Apparent Power 11000 VA, Max 16.5 A

### STH-12KTL-HT:

PV input: Max 1000 Vdc, MPPT voltage range: 200-850 Vdc, Max 13A/13 A, Isc PV: 18 A/18 A

Battery: Voltage Range 140-750 Vdc, Max charge and discharge current: 25 A, Battery type: Li-Ion

AC output: 3/N/PE 230/400 Vac , 50 Hz, Rated Active Power 12000 W, Max. Apparent Power 13200 VA, Max 20.0 A