

**Certificate Number:** AZ 69027241

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## CERTIFICATE OF SUITABILITY

**Authorised marking:** TUV-027241-E

*TÜV Rheinland Australia Pty Ltd "Electrical Product Safety Certification (EPSC) Scheme", accredited by JAS-ANZ in accordance with ISO/IEC 17065, has issued this certificate under JAS-ANZ accreditation. The electrical equipment described hereunder has been evaluated and found to be electrically safe at the time of certification and met the minimum safety requirements contained in Australian Standard AS/NZS 3820 as of current. It is a requirement that all equipment supplied under this certificate shall be identical to the equipment as certified. The certificate holder may affix the above mentioned authorised marking on the product.*

### CERTIFICATE HOLDER:

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

### DESCRIPTION OF EQUIPMENT

**Declared class:**

Non-declared

**Product:**

Hybrid Inverter

**Trade Name / Manufacturer:**

Sunways

**Model Number:**

STH-3KTL-HSS , STH-3.6KTL-HSS , STH-3KTL-HS ,  
STH-3.6KTL-HS , STH-4.2KTL-HS , STH-4.6KTL-HS ,  
STH-5KTL-HS , STH-6KTL-HS , STH-7KTL-HS , STH-8KTL-HS

**Ratings:**

Ratings refer to Continuation Sheets 1 to 2 for details

**Standard:**

AS/NZS 4777.2:2020+A1  
IEC 62109-1:2010  
IEC 62109-2:2011

**Issue Date:**

04/07/2023

**Expiry Date:**

04/07/2028

*Signed for and on behalf of TÜV Rheinland Australia Pty Ltd*

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Grant Li



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CONTINUATION SHEET 1

DESCRIPTION OF EQUIPMENT

Ratings:

Protection: Class I, IP65, PD 2( Inside), PD 3 ( Outside)

Operating Temp.: -30°C to 60°C (>45°C derating),

Overvoltage Category (OVC): DC input: II; AC Output: III

PV Input:

VDC max: 600 Vd.c.,

VDC MPPT: 100 - 550Vd.c.,

IDC max: 15A, 15A, 15/15A, 15/15A, 15/15A,

15/15A, 15/15A, 15/15A, 15/15A, 15/15A

Isc PV: 20A, 20A, 20/20A, 20/20A, 20/20A,

20/20A, 20/20A, 20/20A, 20/20A, 20/20A

Battery input:

Battery Type: Lithium battery ( With BMS)

Battery voltage range: 85- 500Vdc

Max charging / discharging current: 30/30A

AC Output:

Output voltage: 220/230V, L/N/PE

Output frequency: 50/60Hz,

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## CERTIFICATE OF SUITABILITY

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### CONTINUATION SHEET 2

#### DESCRIPTION OF EQUIPMENT

Rated Output Power: 3kW, 3.6kW, 3kW, 3.6kW, 4.2kW,  
4.6kW, 4.99kW, 6kW, 7kW, 8kW  
Rated Output Apparent Power: 3kVA, 3.6kVA, 3kVA, 3.6kVA,  
4.2kVA, 4.6kVA, 4.99kVA, 6kVA, 7kVA, 8kVA  
Max Output Apparent Power: 3.3kVA, 3.96kVA, 3.3kVA, 3.96kVA,  
4.6kVA, 4.99kVA, 6.6kVA, 7.7kVA, 8kVA  
Rated output current: 13A, 15.7A, 13A, 15.7A, 18.3A,  
20A, 21.7A, 26.1A, 31.8A, 36.3A  
Max output current: 15A, 18A, 15A, 18A, 21A,  
21A, 21.7A, 28.7A, 35A, 36.3A  
Power factor: 0.8 leading to 0.8 lagging,

#### AC Output (Back up):

Rated output voltage: 220/230, L/N/PE  
Rated output frequency: 50/60Hz,  
Rated Output Apparent Power: 3kVA, 3.6kVA, 3kVA, 3.6kVA,  
4.2kVA, 4.6kVA, 4.99kVA, 6kVA, 7kVA, 8kVA  
Max Output Apparent Power: 3.3kVA, 3.96kVA, 3.3kVA, 3.96kVA,  
4.6kVA, 4.99kVA, 6.6kVA, 7.7kVA, 8kVA  
Rated output current: 13A, 15.7A, 13A, 15.7A, 18.3A,  
20A, 21.7A, 26.1A, 31.8A, 36.3A  
Max output current: 15A, 18A, 15A, 18A, 21A,  
21A, 21.7A, 28.7A, 35A, 36.3A

Issue Date: 04/07/2023

Expiry Date: 04/07/2028

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