# CERTIFICATE OF CONFORMITY

| | |
|---|---|
| Issued to: | Ningbo AUX Solar Technology Co., Ltd.<br>1-2 & 2-7 of Building A, 1-1 on 1F of Building 10, 1-1 on 1F of Building 13;1-1 on 1F & 2-1on 2F & 3-3 on 3F & 4-4 on 4F of Building 16, No.518 Xinmei Road, Ningbo National Hi-Tech Industrial Development Zone, Zhejiang, China |
| For the product: | Hybrid solar inverter |
| Trade name: | AUXSOL |
| Type/Model: | ASG-50TL-ZH |
| Ratings: | See Annex |
| Manufactured by: | Same as applicant |
| Requirements: | IEC 61683:1999 |

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6255967.53

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 2031-05-14 or expires upon withdrawal of one of the above mentioned standards.

Shanghai, 2026-05-14 Number: 6255967.04COC

DEKRA Testing and Certification (Shanghai) Ltd.

Kreny Lin
Certification Manager

IAS ACCREDITED Product Certification Agency

© Integral publication of this certificate and adjoining reports is allowed

PCA-141

DEKRA Testing and Certification (Shanghai) Ltd.
No.250, Jiangchangsan Road, Jing'an District, Shanghai, 200436 People's Republic of China
T +86 21 6056 7600 F +86 21 6056 7555 www.dekra-product-safety.com

# Annex

Document no. : 6255967.04COC

**Ratings:**

Operating temperature range: - 30°C to + 60°C
Protective class: I
Ingress protection rating: IP 66
OVC: DC II / AC III
Power factor range (adjustable): >0.99 (0.8 leading…0.8 lagging)

PV Input:
Max.input power: 100 kW, Max.input voltage: 1000 V, MPPT voltage range: 150 to 850 V, Max.input current: 40 A*4, Max short circuit current: 50 A*4.

Battery Input:
Battery type: Lithium-ion, Battery Voltage Range: 150 to 800 V, Max.discharge current: 80 A*2, Max.charge current: 80 A*2.

AC Output (Grid side):
380 / 400 V, 3/N/PE, 50 / 60 Hz, Max.output current 113.6 A, Max.apparent output power 50 kVA, Rated active power 50 kW.

AC Input (Grid side):
380 / 400 V, 3/N/PE, 50 / 60 Hz, Max.input current 150 A, Rated input power 100 kW, Max.input power: 100 kW, Max.apparent output power 100 kVA.

AC Output (Back-up):
380 / 400 V, 3/N/PE, 50 / 60 Hz, Rated input power 50 kW, Max.output current 75.8 A.

Hardware version: T1001
Software version: T1001

**--The end--**

TL-907

Test Report issued under the responsibility of:

# TEST REPORT
# IEC 61683
# Photovoltaic systems – Power conditioners – Procedure for measuring efficiency

| | |
|---|---|
| **Report Number. .....:** | 6255967.53 |
| **Date of issue .....:** | 2026.04.28 |
| **Total number of pages.....** | 28 pages |
| **Name of Testing Laboratory preparing the Report.....:** | DEKRA Testing and Certification (Shanghai) Ltd.<br>No.16, Lane 1288, Luoning Road, Baoshan District, Shanghai, 200949, China |
| **Applicant's name.....:** | Ningbo AUX Solar Technology Co., Ltd. |
| **Address .....:** | 1-2 & 2-7 of Building A, 1-1 on 1F of Building 10, 1-1 on 1F of Building 13; 1-1 on 1F & 2-1on 2F & 3-3 on 3F & 4-4 on 4F of Building 16, No.518 Xinmei Road, Ningbo National Hi-Tech Industrial Development Zone, Zhejiang, China |
| **Test specification:** | |
| **Standard .....:** | IEC 61683:1999 |
| **Test procedure .....:** | Type test |
| **Non-standard test method.....:** | N/A |
| **Test Report Form No.....:** | IEC61683B |
| **Test Report Form(s) Originator.....:** | TÜV SÜD Product Service GmbH |
| **Master TRF .....:** | Dated 2017-11-03 |

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TL-395

Test Report issued under the responsibility of:

Total Quality. Assured.

# TEST REPORT
# IEC 61727
# Photovoltaic (PV) systems – Characteristics of the utility interface

| | |
|---|---|
| **Report Number. ..... :** | 260209171GZU-003 |
| **Date of issue ..... :** | 11 Mar 2026 |
| **Total number of pages ..... :** | 23 Pages |
| **Name of Testing Laboratory preparing the Report ..... :** | Intertek Testing Services Shenzhen Ltd. Guangzhou Branch<br>Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China |
| **Applicant's name ..... :** | Ningbo AUX Solar Technology Co., Ltd. |
| **Address ..... :** | 1-2&2-7 of Building A, 1-1 on 1F of Building 10, 1-1 on 1F of Building 13; 1-1 on 1F & 2-1on 2F & 3-3 on 3F & 4-4 on 4F of Building 16, No.518 Xinmei Road, Ningbo National Hi-Tech Industrial Development Zone, Zhejiang, China |
| **Test specification:** | |
| **Standard ..... :** | IEC 61727:2004 |
| **Test procedure ..... :** | Type approval |
| **Non-standard test method ..... :** | N/A |
| **Test Report Form No. ..... :** | IEC61727B |
| **Test Report Form(s) Originator .... :** | TÜV SÜD Product Service GmbH |
| **Master TRF ..... :** | Dated 2017-11-03 |

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TL-395

Test Report issued under the responsibility of:

Total Quality. Assured.

# TEST REPORT
# IEC 62116
# Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters

| | |
|---|---|
| **Report Number. .....:** | 260209171GZU-004 |
| **Date of issue .....:** | 11 Mar 2026 |
| **Total number of pages.....** | 16 Pages |
| **Name of Testing Laboratory preparing the Report.....:** | Intertek Testing Services Shenzhen Ltd. Guangzhou Branch<br>Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China |
| **Applicant's name.....:** | Ningbo AUX Solar Technology Co., Ltd. |
| **Address .....:** | 1-2&2-7 of Building A, 1-1 on 1F of Building 10, 1-1 on 1F of Building 13; 1-1 on 1F & 2-1on 2F & 3-3 on 3F & 4-4 on 4F of Building 16, No.518 Xinmei Road, Ningbo National Hi-Tech Industrial Development Zone, Zhejiang, China |
| **Test specification:** | |
| **Standard .....:** | IEC 62116:2014 |
| **Test procedure .....:** | Type approval |
| **Non-standard test method.....:** | N/A |
| **Test Report Form No.....:** | IEC62116B |
| **Test Report Form(s) Originator.....:** | TÜV SÜD Product Service GmbH |
| **Master TRF .....:** | Dated 2017-11-03 |

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# Certificate of Conformity

## Certificate Number: CN-PVES-260078

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture(s). The manufacturer(s) shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

| | |
|---|---|
| **Applicant:** | Ningbo AUX Solar Technology Co., Ltd.<br>1-2&2-7 of Building A, 1-1 on 1F of Building 10, 1-1 on 1F of Building 13; 1-1 on 1F & 2-1on 2F & 3-3 on 3F & 4-4 on 4F of Building 16, No.518 Xinmei Road, Ningbo National Hi-Tech Industrial Development Zone, Zhejiang, China |
| **Product:** | Hybrid solar inverter |
| **Ratings & Principle Characteristics:** | See appendix of Certificate of Conformity |
| **Model:** | ASG-29.9TL-ZH, ASG-30TL-ZH, ASG-36TL-ZH<br>ASG-40TL-ZH, ASG-50TL-ZH |
| **Brand Name<s>:** | AUXSOL |
| **Product Complies with:** | IEC 61727:2004<br>IEC 62116:2014 |
| **Certificate Issuing Office Name & Address:** | Intertek Testing Services Ltd. Shanghai<br>West Area, 2nd Floor, No. 707, Zhangyang Road<br>China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China<br>Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012 |
| **Test Report No.<s>:** | 260209171GZU -003, 11 Mar 2026<br>260209171GZU -004, 11 Mar 2026 |

Additional information in Appendix.

**Signature**

**Certification Manager: Grady Ye**
**Date: 13 March 2026**

01886

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# APPENDIX: Certificate of Conformity

**This is an Appendix to Certificate of Conformity Number: CN-PVES-260078**

| Model | ASG-29.9TL-ZH | ASG-30TL-ZH | ASG-36TL-ZH |
|---|---|---|---|
| PV Input | | | |
| Max. input voltage | 1000V | | |
| MPPT voltage range | 150-850V | | |
| Max. input current | 40A*3 | | |
| Max. short circuit current | 50A*3 | | |
| Input Battery | | | |
| Battery type | Lithium-ion | | |
| Battery voltage range | 150-800V | | |
| Max.charge/discharge current | 80A*2/80A*2 | | |
| Output AC (Grid side) | | | |
| Rated output power | 29.9kW | 30kW | 36kW |
| Max. apparent output power | 29.9kVA | 33kVA | 39.6kVA |
| Rated grid voltage | 3/N/PE, 220/380Vac, 230/400Vac | | |
| Rated grid frequency | 50/60Hz | | |
| Max. output current | 43.2A | 47.6A | 57.2A |
| Power factor | >0.99 default (0.8 leading...0.8 lagging) | | |
| Input AC (Grid side) | | | |
| Rated input power | 59.8kW | 60kW | 72kW |
| Max. apparent power | 59.8kVA | 60kVA | 72kVA |
| Max. input current | 86.3A | 86.6A | 103.9A |
| Rated input voltage | 3/N/PE, 220/380Vac, 230/400Vac | | |
| Rated input frequency | 50/60Hz | | |
| Output AC (Back-up) | | | |
| Rated output power | 29.9kW | 30kW | 36kW |
| Max. output current | 43.2A | 43.3A | 52A |
| Rated output voltage | 3/N/PE, 220/380Vac, 230/400Vac | | |
| Rated frequency | 50/60Hz | | |
| Ambient temperature range | -30...+60℃ | | |
| Degree of protection | IP66 | | |
| Protective Class | Class I | | |
| Software Version | T1001 | | |

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# APPENDIX: Certificate of Conformity

**This is an Appendix to Certificate of Conformity Number: CN-PVES-260078**

| Model | ASG-40TL-ZH | ASG-50TL-ZH |
|---|---|---|
| PV Input | | |
| Max. input voltage | 1000V | |
| MPPT voltage range | 150-850V | |
| Max. input current | 40A*4 | |
| Max. short circuit current | 50A*4 | |
| Input Battery | | |
| Battery type | Lithium-ion | |
| Battery voltage range | 150-800V | |
| Max.charge/discharge current | 80A*2/80A*2 | |
| Output AC (Grid side) | | |
| Rated output power | 40kW | 50kW |
| Max. apparent output power | 44kVA | 55kVA |
| Rated grid voltage | 3/N/PE, 220/380Vac, 230/400Vac | |
| Rated grid frequency | 50/60Hz | |
| Max. output current | 63.5A | 79.4A |
| Power factor | >0.99 default (0.8 leading...0.8 lagging) | |
| Input AC (Grid side) | | |
| Rated input power | 80kW | 100kW |
| Max. apparent power | 80kVA | 100kVA |
| Max. input current | 115.5A | 144.3A |
| Rated input voltage | 3/N/PE, 220/380Vac, 230/400Vac | |
| Rated input frequency | 50/60Hz | |
| Output AC (Back-up) | | |
| Rated output power | 40kW | 50kW |
| Max. output current | 57.7A | 72.2A |
| Rated output voltage | 3/N/PE, 220/380Vac, 230/400Vac | |
| Rated frequency | 50/60Hz | |
| Ambient temperature range | -30...+60℃ | |
| Degree of protection | IP66 | |
| Protective Class | Class I | |
| Software Version | T1001 | |

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# Test Verification of Conformity

## Verification Number: 260209171GZU-VOC001

On the basis of the tests undertaken, the sample<s> of the below product has been tested by an accredited 3rd party laboratory in accordance to the referenced specification<s>/standard<s> at the time the tests were carried out. This verification is part of the full test report<s> and should be read in conjunction with it <them>.

This document can be used in support of a claim in meeting relevant EU legislation and mandatory Conformity Marking. And in accordance with EU / UK law, the claim is the sole obligation of the Manufacturer/ Importer.

| | |
|---|---|
| Applicant Name & Address: | Ningbo AUX Solar Technology Co., Ltd.<br>1-2&2-7 of Building A, 1-1 on 1F of Building 10, 1-1 on 1F of Building 13; 1-1 on 1F & 2-1on 2F & 3-3 on 3F & 4-4 on 4F of Building 16, No.518 Xinmei Road, Ningbo National Hi-Tech Industrial Development Zone, Zhejiang, China |
| Product Description:<br>Ratings & Principle Characteristics: | Hybrid solar inverter<br>See APPENDIX: Test Verification of Conformity |
| Models/Type References: | ASG-29.9TL-ZH, ASG-30TL-ZH, ASG-36TL-ZH,<br>ASG-40TL-ZH, ASG-50TL-ZH |
| Brand Names: | AUXSOL |
| Specification<s>/Standards: | IEC/EN 62109-1: 2010 Safety of power converters for use in photovoltaic power systems – Part 1: General requirements<br>IEC/EN 62109-2: 2011 Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for inverters<br>Low Voltage Directive 2014/35/EU |
| Verification Issuing Office Name & Address: | Intertek Testing Services Shenzhen Ltd. Guangzhou Branch<br>Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China |
| Date of Tests: | 10 Feb 2026-18 Mar 2026 |
| Test Report Number(s): | 260209171GZU-001, 260209171GZU-002 |

Additional information in Appendix.

Jason Fu

**Signature**

**Name: Jason Fu**
**Position: Supervisor**
**Date: 30 March 2026**

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# APPENDIX: Test Verification of Conformity

**This is an Appendix to Test Verification of Conformity Number: 260209171GZU-VOC001**

Ratings & Principle Characteristics:

| Model | ASG-29.9TL-ZH | ASG-30TL-ZH | ASG-36TL-ZH |
|---|---|---|---|
| PV Input | | | |
| Max. input voltage | 1000V | | |
| MPPT voltage range | 150-850V | | |
| Max. input current | 40A*3 | | |
| Max. short circuit current | 50A*3 | | |
| Input Battery | | | |
| Battery type | Lithium-ion | | |
| Battery voltage range | 150-800V | | |
| Max.charge/discharge current | 80A*2/80A*2 | | |
| Output AC (Grid side) | | | |
| Rated output power | 29.9kW | 30kW | 36kW |
| Max. apparent output power | 29.9kVA | 33kVA | 39.6kVA |
| Rated grid voltage | 3/N/PE, 220/380Vac, 230/400Vac | | |
| Rated grid frequency | 50/60Hz | | |
| Max. output current | 68.0A | 68.2A | 81.2A |
| Power factor | >0.99 default (0.8 leading...0.8 lagging) | | |
| Input AC (Grid side) | | | |
| Rated input power | 59.8kW | 60kW | 72kW |
| Max. apparent power | 59.8kVA | 60kVA | 72kVA |
| Max. input current | 86.7A | 87.0A | 104.3A |
| Rated input voltage | 3/N/PE, 220/380Vac, 230/400Vac | | |
| Rated input frequency | 50/60Hz | | |
| Output AC (Back-up) | | | |
| Rated output power | 29.9kW | 30kW | 36kW |
| Max. output current | 45.3A | 45.5A | 54.5A |
| Rated output voltage | 3/N/PE, 220/380Vac, 230/400Vac | | |
| Rated frequency | 50/60Hz | | |
| Ambient temperature range | -30...+60°C | | |
| Degree of protection | IP66 | | |
| Protective Class | Class I | | |
| Software Version | T1001 | | |

Jason Fu

**Signature**

**Name: Jason Fu**
**Position: Supervisor**
**Date: 30 March 2026**

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# APPENDIX: Test Verification of Conformity

**This is an Appendix to Test Verification of Conformity Number: 260209171GZU-VOC001**

Ratings & Principle Characteristics:

| Model | ASG-40TL-ZH | ASG-50TL-ZH |
|---|---|---|
| PV Input | | |
| Max. input voltage | 1000V | |
| MPPT voltage range | 150-850V | |
| Max. input current | 40A*4 | |
| Max. short circuit current | 50A*4 | |
| Input Battery | | |
| Battery type | Lithium-ion | |
| Battery voltage range | 150-800V | |
| Max.charge/discharge current | 80A*2/80A*2 | |
| Output AC (Grid side) | | |
| Rated output power | 40kW | 50kW |
| Max. apparent output power | 44kVA | 50kVA |
| Rated grid voltage | 3/N/PE, 220/380Vac, 230/400Vac | |
| Rated grid frequency | 50/60Hz | |
| Max. output current | 90.9A | 113.6A |
| Power factor | >0.99 default (0.8 leading...0.8 lagging) | |
| Input AC (Grid side) | | |
| Rated input power | 80kW | 100kW |
| Max. apparent power | 80kVA | 100kVA |
| Max. input current | 115.9A | 150.0A |
| Rated input voltage | 3/N/PE, 220/380Vac, 230/400Vac | |
| Rated input frequency | 50/60Hz | |
| Output AC (Back-up) | | |
| Rated output power | 40kW | 50kW |
| Max. output current | 60.6A | 75.8A |
| Rated output voltage | 3/N/PE, 220/380Vac, 230/400Vac | |
| Rated frequency | 50/60Hz | |
| Ambient temperature range | -30...+60℃ | |
| Degree of protection | IP66 | |
| Protective Class | Class I | |
| Software Version | T1001 | |

Jason Fu

**Signature**

**Name: Jason Fu**
**Position: Supervisor**
**Date: 30 March 2026**

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TL-395

**Test Report issued under the responsibility of:**

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# TEST REPORT
# IEC 62109-1
# Safety of Power Converter for use in Photovoltaic Power Systems
# Part 1: General requirements

| | |
|---|---|
| **Report Number. ..... :** | 260209171GZU-001 |
| **Date of issue ..... :** | 19 Mar 2026 |
| **Total number of pages ..... :** | 87 pages |
| **Name of Testing Laboratory preparing the Report ..... :** | Intertek Testing Services Shenzhen Ltd. Guangzhou Branch<br>Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China |
| **Applicant's name ..... :** | Ningbo AUX Solar Technology Co., Ltd. |
| **Address ..... :** | 1-2&2-7 of Building A, 1-1 on 1F of Building 10, 1-1 on 1F of Building 13; 1-1 on 1F & 2-1on 2F & 3-3 on 3F & 4-4 on 4F of Building 16, No.518 Xinmei Road, Ningbo National Hi-Tech Industrial Development Zone, Zhejiang, China |
| **Test specification:** | |
| **Standard ..... :** | IEC/EN 62109-1:2010 (First Edition) |
| **Test procedure ..... :** | Type approval |
| **Non-standard test method ..... :** | N/A |
| **Test Report Form No. ..... :** | IEC62109_1B |
| **Test Report Form(s) Originator .... :** | VDE Testing and Certification Institute |
| **Master TRF ..... :** | Dated 2016-04 |

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# TEST REPORT
# IEC 62109-2
# Safety of Power Converter for use in Photovoltaic Power Systems Part 2: Particular requirements for inverters

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| **Name of Testing Laboratory preparing the Report.....:** | Intertek Testing Services Shenzhen Ltd. Guangzhou Branch<br>Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China |
| **Applicant's name..... :** | Ningbo AUX Solar Technology Co., Ltd. |
| **Address ..... :** | 1-2&2-7 of Building A, 1-1 on 1F of Building 10, 1-1 on 1F of Building 13; 1-1 on 1F & 2-1on 2F & 3-3 on 3F & 4-4 on 4F of Building 16, No.518 Xinmei Road, Ningbo National Hi-Tech Industrial Development Zone, Zhejiang, China |
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