

# Certificate of Conformity


Certificate Number: CN-PV-230229

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

Applicant Name & Address:	Ningbo AUX Solar Technology Co., Ltd. No. 17 Fenglin Road, Cicheng Town, Jiangbei District, Ningbo City, Zhejiang Province, China
Product Description:	Three phase on grid solar inverter
Ratings & Principle Characteristics:	See Annex to Certificate of Conformity
Models/Type References:	ASN-5TL, ASN-6TL, ASN-8TL, ASN-10TL, ASN-12TL ASN-15TL, ASN-17TL, ASN-20TL, ASN-23TL, ASN-25TL
Brand Name:	<b>AUXSOL</b>
Specification/Standard:	EN 50549-1: 2019, Requirements for generating plants to be connected in parallel with distribution networks Part 1: Connection to a LV distribution network - Generating plants up to and including Type B Type approval for type B
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai West Area, 2 <sup>nd</sup> Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China  Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012
Test Report Number:	230417139GZU-003

According to Annex H of the standard EN 50549-1:2019, generating plants compliant with the clauses of this European Standard are considered to be compliant with the relevant Article of COMMISSION REGULATION (EU) 2016/631, provided, that all settings as provided by the DSO and the responsible party are complied with.

Additional information in Appendix.



Signature

**Certification Manager: Grady Ye**

**Date: 12 May 2023**



PRD N° 306B

## APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230229

Model	ASN-5TL	ASN-6TL	ASN-8TL	ASN-10TL
PV Input				
Max. input voltage	1100V			
MPPT voltage range	200-1000V			
Max. input current	16A/16A			
Max. short circuit current	20A/20A			
Output AC				
Rated output power	5kW	6kW	8kW	10kW
Max. apparent output power	5.5kVA	6.6kVA	8.8kVA	11kVA
Rated grid voltage	220V/380V, 230V/400V, 3/N/PE			
Rated grid frequency	50Hz			
Max. output current	8.4A	10.0A	13.3A	16.7A
Power factor	1 default (0.8 leading...0.8 lagging)			
Ambient temperature range	-30...+60°C			
Degree of protection	IP66			
Software Version	DSP: D2301; ARM: A2301			

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## APPENDIX: Certificate of Conformity

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Model	ASN-12TL	ASN-15TL	ASN-17TL
PV Input			
Max. input voltage	1100V		
MPPT voltage range	200-1000V		
Max. input current	16A/16A	32A/16A	32A/32A
Max. short circuit current	20A/20A	40A/20A	40A/40A
Output AC			
Rated output power	12kW	15kW	17kW
Max. apparent output power	13.2kVA	16.5kVA	18.7kVA
Rated grid voltage	220V/380V, 230V/400V, 3/N/PE		
Rated grid frequency	50Hz		
Max. output current	20.1A	25.1A	28.3A
Power factor	1 default (0.8 leading...0.8 lagging)		
Ambient temperature range	-30...+60°C		
Degree of protection	IP66		
Software Version	DSP: D2301; ARM: A2301		

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This is an Appendix to Certificate of Conformity Number: CN-PV-230229

Model	ASN-20TL	ASN-23TL	ASN-25TL
PV Input			
Max. input voltage	1100V		
MPPT voltage range	200-1000V		
Max. input current	32A/32A		
Max. short circuit current	40A/40A		
Output AC			
Rated output power	20kW	23kW	25kW
Max. apparent output power	22kVA	25.3kVA	27.5kVA
Rated grid voltage	220V/380V, 230V/400V, 3/N/PE		
Rated grid frequency	50Hz		
Max. output current	33.3A	38.3A	39.8A
Power factor	1 default (0.8 leading...0.8 lagging)		
Ambient temperature range	-30...+60°C		
Degree of protection	IP66		
Software Version	DSP: D2301; ARM: A2301		

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Interface protection settings according to EN 50549-1:2019			
Parameter	Max. disconnection time	Min. operate time	Trip value
Undervoltage threshold stage 1 [27 < ]	100s	0.1s (0.1 s steps)	Trip value Config. from 0.2 to 1 Un (0.01 Un steps)
Undervoltage threshold stage 2 [27 << ]	5s	0.1s (0.05 s steps)	Trip value Config. from 0.2 to 1 Un (0.01 Un steps)
Overvoltage threshold stage 1 [59 > ]	100s	0.1s (0.1 s steps)	Trip value Config. from 1.0 to 1.2 Un (0.01 Un steps)
Overvoltage threshold stage 2 [59 >> ]	5s	0.1s (0.05 s steps)	Trip value Config. from 1.0 to 1.3 Un (0.01 Un steps)
Overvoltage 10 min mean protection	Trip time Config ≤ 3s not adjustable Time delay setting = 0 ms		Trip value Config. from 1.0 to 1.15Un (0.01 Un steps)
Underfrequency threshold stage 1 [81 < ]	100s	0.1s (0.1s steps)	Trip value Config. from 47.0 to 50.0Hz (0.1Hz steps)
Underfrequency threshold stage 2 [81 << ]	5s	0.1s (0.05 s steps)	Trip value Config. from 47.0 to 50.0Hz (0.1Hz steps)
Overfrequency threshold stage 1 [81 > ]	100s	0.1s (0.1s steps)	Trip value Config. from 50.0 to 52.0Hz (0.1Hz steps)
Overfrequency threshold stage 2 [81 >> ]	5s	0.1s (0.05 s steps)	Trip value Config. from 50.0 to 52.0Hz (0.1Hz steps)
Starting to and reconnection settings for voltage	50%-120% adjustable, 85%Un ≤ U ≤ 1.10Un default		
Starting to generate electrical power	47Hz – 52Hz adjustable, 49.5Hz ≤ U ≤ 50.1Hz default		
Reconnection settings for frequency	47Hz – 52Hz adjustable, 49.5Hz ≤ U ≤ 50.2Hz default		
Observation time	10s-60s adjustable, 60s default		
Active power increase gradient	6%-3000%/min adjustable, 10%/min default		
Permanent DC injection	0.5% of rated inverter output		
Loss of mains according to EN 62116	Within 2s		

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TESTING  
CNAS L11038

Shenzhen Nore Testing Center Co.,Ltd.  
South, No.1, Building 10, Maqueling Industrial Zone,  
Nanshan Shenzhen, Guangdong, 518057, China  
TEL: +86-755-33525266 Wed: www.ntc-c.com



# CERTIFICATE OF CONFORMITY

Electromagnetic Compatibility Directive 2014/30/EU

Certificate No.: SZNTC2303211EV00

Applicant : Ningbo AUX Solar Technology Co., Ltd.  
Address : No. 17 Fenglin Road, Cicheng Town, Jiangbei District, Ningbo City,  
Zhejiang Province, China

Manufacturer : Ningbo AUX Solar Technology Co., Ltd.  
Address : No. 17 Fenglin Road, Cicheng Town, Jiangbei District, Ningbo City,  
Zhejiang Province, China

Factory : Ningbo AUX Solar Technology Co., Ltd.  
Address : No. 17 Fenglin Road, Cicheng Town, Jiangbei District, Ningbo City,  
Zhejiang Province, China

E.U.T. : Grid-connected inverter

Brand Name : **AUXSOL**

Model No. : ASN-25TL, ASN-23TL, ASN-20TL, ASN-17TL, ASN-15TL,  
ASN-12TL, ASN-10TL, ASN-8TL, ASN-6TL, ASN-5TL

Test Report No. : SZNTC2303211EV00

Standard : EN IEC 61000-6-1: 2019  
EN IEC 61000-6-2: 2019  
EN IEC 61000-6-3: 2021  
EN IEC 61000-6-4: 2019  
EN IEC 61000-3-11: 2019  
EN 61000-3-12: 2011



The certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical report and documentation are at the applicant's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU, in its latest amended version, referred to EMC Directive. The certificate does not imply assessment of the production and does not permit the use of Lab's logo.

Remark: The CE Marking may be used only if all relevant and effective EC Directives are complied with.

# Certificate of Conformity

Certificate Number: CN-PV-230268

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

Applicant Name & Address:	Ningbo AUX Solar Technology Co., Ltd. No. 17 Fenglin Road, Cicheng Town, Jiangbei District, Ningbo City, Zhejiang Province, China
Product Description:	Three phase on grid solar inverter
Ratings & Principle Characteristics:	See Annex to Certificate of Conformity
Models/Type References:	ASN-5TL, ASN-6TL, ASN-8TL, ASN-10TL, ASN-12TL ASN-15TL, ASN-17TL, ASN-20TL, ASN-23TL, ASN-25TL
Brand Name:	<b>AUXSOL</b>
Specification/Standard:	IEC 61727:2004 Photovoltaic (PV) systems – Characteristics of the utility interface IEC 62116:2014 Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters IEC 61683:1999 Photovoltaic systems – Power conditioners – Procedure for measuring efficiency
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai West Area, 2 <sup>nd</sup> Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China
Test Report Number:	Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012 230509144GZU-001, 230509144GZU-002, 230509144GZU-003

Additional information in Appendix.



Signature

**Certification Manager: Grady Ye**  
**Date: 29 May 2023**



PRD N° 306B

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PV Input				
Max. input voltage	1100V			
MPPT voltage range	200-1000V			
Max. input current	16A/16A			
Max. short circuit current	20A/20A			
Output AC				
Rated output power	5kW	6kW	8kW	10kW
Max. apparent output power	5.5kVA	6.6kVA	8.8kVA	11kVA
Rated grid voltage	220V/380V, 230V/400V, 3/N/PE			
Rated grid frequency	50Hz/60Hz			
Max. output current	8.4A	10.0A	13.3A	16.7A
Power factor	1 default (0.8 leading...0.8 lagging)			
Ambient temperature range	-30...+60°C			
Degree of protection	IP66			
Software Version	DSP: D2301; ARM: A2301			

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PV Input			
Max. input voltage	1100V		
MPPT voltage range	200-1000V		
Max. input current	16A/16A	32A/16A	32A/32A
Max. short circuit current	20A/20A	40A/20A	40A/40A
Output AC			
Rated output power	12kW	15kW	17kW
Max. apparent output power	13.2kVA	16.5kVA	18.7kVA
Rated grid voltage	220V/380V, 230V/400V, 3/N/PE		
Rated grid frequency	50Hz/60Hz		
Max. output current	20.1A	25.1A	28.3A
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PV Input			
Max. input voltage	1100V		
MPPT voltage range	200-1000V		
Max. input current	32A/32A		
Max. short circuit current	40A/40A		
Output AC			
Rated output power	20kW	23kW	25kW
Max. apparent output power	22kVA	25.3kVA	27.5kVA
Rated grid voltage	220V/380V, 230V/400V, 3/N/PE		
Rated grid frequency	50Hz/60Hz		
Max. output current	33.3A	38.3A	39.8A
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