Test Verification of Conformity

Verification Number: 2509B0683SHA-V1

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 EMC Directive(2014/30/EU) and mandatory Conformity Marking. And in accordance with EU law, the claim is the sole obligation of the Manufacturer/ Importer.

Applicant Name & Address:	Afore New Energy Technology (Shanghai) Co., Ltd. Building 7, No.333 Wanfang Rd, Minhang District, Shanghai. China. 201112
Product Description:	PV Grid Interactive inverter
Ratings & Principle Characteristics:	See specifications table
Models/Type References:	HNS3000TL, HNS3600TL-1, HNS3600TL, HNS4000TL, HNS4950TL, HNS5000TL, HNS6000TL, HNS7000TL, HNS7500TL, HNS8000TL, HNS9000TL, HNS10000TL
Brand Name:	Afore
Relevant Standards/Directives:	EN IEC 61000-6-1:2019; EN IEC 61000-6-3:2021; EN IEC 61000-6-2:2019; EN IEC 61000-6-4:2019; EN IEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN IEC 61000-3-11:2019; EN 61000-3-12:2011; EN 62920:2017+A1:2021;
Verification Issuing Office Name & Address:	Intertek Testing Services (Shanghai FTZ) Co., Ltd. Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Date of Tests:	2023-07-03 to 2023-08-01, 2024-03-06 to 2024-03-08
Test Report Number(s):	2509B0683SHA-001

Signature

Name: Max Jin
Position: General Manager
Date: 2025-11-11

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2509B0683SHA-V1

Specifications table				
Model	HNS3000TL	HNS3600TL-1	HNS3600TL	HNS4000TL
PV input				
P pv Max(W)	6000	7200	7200	8000
Vmax PV (Vdc) (absolute Max.)	600	600	600	600
Isc PV (absolute Max.) (A)	25 x 2	25	25 x 2	25 x 2
Number MPP trackers	2	1	2	2
Number input strings	1/1	1	1/1	1/1
Max. PV input current (A)	18.5 x 2	18.5	18.5 x 2	18.5 x 2
MPPT voltage range (Vdc)	70-550	70-550	70-550	70-550
Vdc range @ full power (Vdc)	90-550	210-550	110-550	120-550
AC Grid (output)				
Normal AC Voltage (VAC)	L/N/PE, 230Vac			
Frequency (Hz)	50			
Normal AC Current (A)	13.1	15.7	15.7	17.4
Max. cont. output current (A)	15	17.5	17.5	20
Normal Power (W)	3000	3600	3600	4000
Rated Apparent Power (VA)	3000	3600	3600	4000
Max. cont. Power (W)	3000	3600	3600	4000
Max. cont. Apparent Power (VA)	3000	3600	3600	4000
Power factor(adjustable)	1.0(-0.8~ +0.8)			
Others				
Protective class	Class I			
Ingress protection (IP)	IP66			
Temperature (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated			
Overvoltage category	OVC III (AC Main), OVC II (PV)			
Software version	V06			

Specifications table				
Model	HNS4950TL	HNS5000TL	HNS6000TL	HNS7000TL
PV input				
P pv Max(W)	9000	10000	12000	14000
Vmax PV (Vdc) (absolute Max.)	600	600	600	600
Isc PV (absolute Max.) (A)	25 x 2	25 x 2	25 x 2	25+35
Number MPP trackers	2	2	2	2
Number input strings	1/1	1/1	1/1	1/2
Max. PV input current (A)	18.5 x 2	18.5 x 2	18.5 x 2	18.5+26
MPPT voltage range (Vdc)	70-550	70-550	70-550	70-550
Vdc range @ full power (Vdc)	150-550	150-550	170-550	170-550
AC Grid (output)				
Normal AC Voltage (VAC)	L/N/PE, 230Vac			
Frequency (Hz)	50			
Normal AC Current (A)	21.6	21.8	26.1	30.5
Max. cont. output current (A)	24	24	28.7	33.6
Normal Power (W)	4950	5000	6000	7000
Rated Apparent Power (VA)	4950	5000	6000	7000
Max. cont. Power (W)	4950	5000	6000	7000
Max. cont. Apparent Power (VA)	4950	5000	6000	7000
Power factor(adjustable)	1.0(-0.8~ +0.8)			
Others				
Protective class	Class I			
Ingress protection (IP)	IP66			
Temperature (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated			
Overvoltage category	OVC III (AC Main), OVC II (PV)			
Software version	V06			

Specifications table				
Model	HNS7500TL	HNS8000TL	HNS9000TL	HNS10000TL
PV input				
P pv Max(W)	15000	16000	18000	20000
Vmax PV (Vdc) (absolute Max.)	600	600	600	600
Isc PV (absolute Max.) (A)	25+35	25+35	35 x 2	35 x 2
Number MPP trackers	2	2	2	2
Number input strings	1/2	1/2	2/2	2/2
Max. PV input current (A)	18.5+26	18.5+26	26 x 2	26 x 2
MPPT voltage range (Vdc)	70-550	70-550	70-550	70-550
Vdc range @ full power (Vdc)	180-550	190-550	220-550	220-550
AC Grid (output)				
Normal AC Voltage (VAC)	L/N/PE, 230Vac			
Frequency (Hz)	50			
Normal AC Current (A)	32.7	34.8	39.2	43.5
Max. cont. output current (A)	36.0	38.3	45	50
Normal Power (W)	7500	8000	9000	10000
Rated Apparent Power (VA)	7500	8000	9000	10000
Max. cont. Power (W)	7500	8000	9000	10000
Max. cont. Apparent Power (VA)	7500	8000	9000	10000
Power factor(adjustable)	1.0(-0.8~ +0.8)			
Others				
Protective class	Class I			
Ingress protection (IP)	IP66			
Temperature (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated			
Overvoltage category	OVC III (AC Main), OVC II (PV)			
Software version	V06			