


Test Verification of Conformity

Verification Number: 240500342SHA-V2

On the basis of the referenced test report(s), sample(s) tested of the below product have been found to comply with the standards harmonized with the directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it <them>.

Once compliance with all product relevant  mark directives are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested sample(s).

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, 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; the EMC Directive 2014/30/EU
Verification Issuing Office Name & Address:	Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
Date of Tests:	2023-07-03 to 2023-08-01, 2024-03-06 to 2024-03-08
Test Report Number(s):	240500342SHA-002


Signature

Name: Max Jin

Position: General Manager

Date: 2024-05-14

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 240500342SHA-V2

Specifications table						
Model	HNS3000T L	HNS3600T L-1	HNS3600T L	HNS4000T L	HNS4950T L	HNS5000T L
Input:						
Vmax PV (Vdc)	600	600	600	600	600	600
Isc PV (absolute Max.) (A)	18 x 2	18	18 x 2	18 x 2	18 x 2	18 x 2
Number MPP trackers	2	1	2	2	2	2
Number input strings	1/1	1	1/1	1/1	1/1	1/1
Max. PV input current(A)	14 x 2	14	14 x 2	14 x 2	14 x 2	14 x 2
MPPT voltage range (Vdc)	70-550	70-550	70-550	70-550	70-550	70-550
Vdc range @ full power (Vdc)	110-550	265-550	130-550	145-550	180-550	180-550
Output						
Normal Voltage(V)	L/N/PE, 230Vac					
Frequency (Hz)	50					
Current (normal) (A)	13.1	15.7	15.7	17.4	21.6	21.8
Current (Max. continuous) (A)	15	17.5	17.5	20	24	24
Power rating (W)	3000	3600	3600	4000	4950	5000
Power Rating (VA)	3000	3600	3600	4000	4950	5000
Power factor /rated	1 (-0,8~+0,8 adjustable)					
others						
Protective class	Class I					
Ingress protection (IP)	IP 66					
Temperature (°C)	-25°C to +60°C (up 45°C derating)					
Inverter Isolation	Non-isolated					
Overvoltage category	OVC III (AC Main), OVC II (PV)					
Software version	DSP: V06 CPLD:V06 HMI:V06					

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Specifications table					
Model	HNS6000TL	HNS7000TL	HNS8000TL	HNS9000TL	HNS10000TL
Input:					
Vmax PV (Vdc)	600	600	600	600	600
Isc PV (absolute Max.) (A)	18 x 2	18+35	18+35	35 x 2	35 x 2
Number MPP trackers	2	2	2	2	2
Number input strings	1/1	1/2	1/2	2/2	2/2
Max. PV input current(A)	14 x 2	14+26	14+26	26 x 2	26 x 2
MPPT voltage range (Vdc)	70-550	70-550	70-550	70-550	70-550
Vdc range @ full power (Vdc)	220-550	220-550	220-550	220-550	220-550
Output					
Normal Voltage(V)	L/N/PE, 230Vac				
Frequency (Hz)	50				
Current (normal) (A)	26.1	30.5	34.8	39.2	43.5
Current (Max. continuous) (A)	28.7	33.6	38.3	45	50
Power rating (W)	6000	7000	8000	9000	10000
Power Rating (VA)	6000	7000	8000	9000	10000
Power factor /rated	1 (-0,8~+0,8 adjustable)				
others					
Protective class	Class I				
Ingress protection (IP)	IP 66				
Temperature (°C)	-25°C to +60°C (up 45°C derating)				
Inverter Isolation	Non-isolated				
Overvoltage category	OVC III (AC Main), OVC II (PV)				
Software version	DSP: V06 CPLD:V06 HMI:V06				

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