

# Attestation of Conformity

**Attestation No:** SHA-AoC-230014

**Applicant Name & Address:** Afore New Energy Technology (Shanghai) Co., Ltd.  
Building 7, No.333 Wanfang Rd, Minhang District, Shanghai. China.  
201112

**Factory 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

**Brand Name:** Afore

**Model:** HNS3000TL, HNS3600TL-1, HNS3600TL, HNS4000TL, HNS5000TL,  
HNS6000TL, HNS7000TL, HNS8000TL, HNS9000TL, HNS10000TL

**Characteristics:** See appendix for details

**Standards:** EN 62109-1:2010; EN 62109-2:2011;  
**EU Directive:** the Low Voltage Directive (LVD) (2014/35/EU)

**Test Report No:** 230601218SHA-001, 230601218SHA-002

**Issued by:** Intertek Testing Services Ltd. Shanghai

**Issue date:** 2023-08-21

This is to attest that the Technical Construction File for the product listed above has been evaluated against the Essential Safety Requirements of Annex I of the Low Voltage Directive (2014/35/EU). This Attestation can be used in support of the Manufacturers Declaration of Conformity on affixing the CE mark. Product conformity to CE marking is not assured until all other applicable EU Regulations are met in full.

  
Signature

**Name:** Qiao Qiao



## APPENDIX: Attestation of Conformity

### Ratings & Principle Characteristics:

Specifications table					
Model	HNS3000TL	HNS3600TL-1	HNS3600TL	HNS4000TL	HNS5000TL
<b>Input:</b>					
Vmax PV (Vdc)	600	600	600	600	600
Isc PV (absolute Max.) (A)	18 x 2	18	18 x 2	18 x 2	18 x 2
Number MPP trackers	2	1	2	2	2
Number input strings	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
MPPT voltage range (Vdc)	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
<b>Output</b>					
Normal Voltage(V)	L/N/PE, 230Vac				
Frequency (Hz)	50				
Current (normal) (A)	13.1	15.7	15.7	17.4	21.8
Current (Max. continuous) (A)	15	17.5	17.5	20	24
Power rating (W)	3000	3600	3600	4000	5000
Power Rating (VA)	3000	3600	3600	4000	5000
Power factor /rated	1 (-0,8~+0,8 adjustable)	1 (-0,8~+0,8 adjustable)	1 (-0,8~+0,8 adjustable)	1 (-0,8~+0,8 adjustable)	1 (-0,8~+0,8 adjustable)
<b>others</b>					
Protective class	Class I				
Ingress protection (IP)	IP 65				
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				

This Attestation is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Attestation. Only the Client is authorized to permit copying or distribution of this Attestation.. The observations and test/inspection results referenced in this Attestation are relevant only to the sample tested/inspected. This Attestation by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program. This Attestation is not accredited under a ISO IEC 17065 accreditation.

## APPENDIX: Attestation of Conformity

### Ratings & Principle Characteristics:

Specifications table					
Model	HNS6000TL	HNS7000TL	HNS8000TL	HNS9000TL	HNS10000TL
<b>Input:</b>					
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
<b>Output</b>					
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)	1 (-0,8~+0,8 adjustable)	1 (-0,8~+0,8 adjustable)	1 (-0,8~+0,8 adjustable)	1 (-0,8~+0,8 adjustable)
<b>others</b>					
Protective class	Class I				
Ingress protection (IP)	IP 65				
Temperature (°C)	-25°C to +60°C (up 45°C derating)				
Inverter Isolation	Non-isolated				
Overtoltage category	OVC III (AC Main), OVC II (PV)				
Software version	DSP:V06 CPLD:V06 HMI:V06				

This Attestation is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Attestation. Only the Client is authorized to permit copying or distribution of this Attestation.. The observations and test/inspection results referenced in this Attestation are relevant only to the sample tested/inspected. This Attestation by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program. This Attestation is not accredited under a ISO IEC 17065 accreditation.