

Certificate of Conformity

Certificate Number: CN-PV-220052

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:	Afore New Energy Technology (Shanghai)Co., Ltd. Build No.7, 333 Wanfang Road, Minhang District, Shanghai. China. 201112
Product:	Grid-connected PV inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	HNS3000TL, HNS3600TL-1, HNS3600TL, HNS4000TL, HNS5000TL, HNS6000TL, HNS7000TL, HNS8000TL
Brand Name<s>:	Afore
Product Complies with:	C10/11:2021 SPECIFIC TECHNICAL PRESCRIPTIONS REGARDING POWER-GENERATING PLANTS OPERATING IN PARALLEL TO THE DISTRIBUTION NETWORK Type approved for type A
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai West Area, 2 nd 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 No.<s>:	220201841SHA-002

Additional information in Appendix.

Signature



Certification Manager: Qiao Qiao

Date: 11 March 2022



PRD N° 306B

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-220052

Ratings & Principle Characteristics:

Specifications table				
Model	HNS3000TL	HNS3600TL-1	HNS3600TL	HNS4000TL
Input:				
Vmax PV (Vdc)	600	600	600	600
Isc PV (absolute Max.) (A)	18 x 2	18	18 x 2	18 x 2
Number MPP trackers	2	1	2	2
Number input strings	1/1	1	1/1	1/1
Max. PV input current(A)	14 x 2	14	14 x 2	14 x 2
MPPT voltage range (Vdc)	70-550	70-550	70-550	70-550
Vdc range @ full power (Vdc)	110-550	265-550	130-550	145-550
Output				
Normal Voltage(V)	L/N/PE. 220Vac. 230Vac. 240Vac			
Frequency (Hz)	50 / 60			
Current (normal) (A)	13.1	15.7	15.7	17.4
Current (Max. continuous) (A)	15	17.5	17.5	20
Power Rating (W)	3000	3600	3600	4000
Power Rating (W)	3000	3600	3600	4000
Max. apparent power (VA)	3000	3600	3600	4000
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)
others				
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			

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Specifications table				
Model	HNS5000TL	HNS6000TL	HNS7000TL	HNS8000TL
Input:				
Vmax PV (Vdc)	600	600	600	600
Isc PV (absolute Max.) (A)	18 x 2	18 x 2	18+35	18+35
Number MPP trackers	2	2	2	2
Number input strings	1/1	1/1	1/2	1/2
Max. PV input current(A)	14 x 2	14 x 2	14+26	14+26
MPPT voltage range (Vdc)	70-550	70-550	70-550	70-550
Vdc range @ full power (Vdc)	180-550	220-550	220-550	220-550
Output				
Normal Voltage(V)	L/N/PE. 220Vac. 230Vac. 240Vac			
Frequency (Hz)	50Hz / 60Hz			
Current (normal) (A)	21.8	26.1	30.5	34.8
Current (Max. continuous) (A)	24	28.7	33.6	38.3
Power Rating (W)	5000	6000	7000	8000
Power Rating (W)	5000	6000	7000	8000
Max. apparent power (VA)	5000	6000	7000	8000
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)
others				
Protective class	Class I			
Ingress protection (IP)	IP 65			
Temperature (°C)	-25°C to +60°C (up 45°C derating)			
Inverter Isolation	Non-isolated			
Oversvoltage category	OVC III (AC Main). OVC II (PV)			
Software version:	DSP: V06 CPLD: V06 HMI: V06			

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