

# Certificate of Conformity

Certificate Number: CN-PV-230674

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.

<b>Applicant:</b>	Afore New Energy Technology (Shanghai) Co., Ltd. Building 7, No.333 Wanfang Rd, Minhang District, Shanghai. China.201112
<b>Product:</b>	Grid-connected PV inverter
<b>Ratings &amp; Principle Characteristics:</b>	See appendix of Certificate of Conformity
<b>Model:</b>	HNS3000TL, HNS3600TL-1, HNS3600TL, HNS4000TL, HNS4950TL, HNS5000TL, HNS6000TL, HNS7000TL, HNS8000TL, HNS9000TL, HNS10000TL
<b>Brand Name&lt;s&gt;:</b>	Afore
<b>Product Complies with:</b>	C10/11: ed.2.2, 15 Mar 2021
<b>Certificate Issuing Office Name &amp; Address:</b>	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
<b>Test Report No.&lt;s&gt;:</b>	230900819SHA-002

Additional information in Appendix.

Signature



Certification Manager: Qiao Qiao

Date: 29 November 2023



PRD N° 306B

## APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230674

### Ratings & Principle Characteristics:

Specifications table				
Model	HNS3000TL	HNS3600TL-1	HNS3600TL	HNS4000TL
<b>PV input</b>				
P pv Max(W)	4500	5400	5400	6000
Vmax PV (Vdc) (absolute Max.)	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
<b>AC Grid (output)</b>				
Normal AC Voltage (VAC)	L/N/PE, 220Vac, 230Vac, 240Vac			
Frequency (Hz)	50 / 60			
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)			
<b>Others</b>				
Protective class	Class I			
Ingress protection (IP)	IP65			
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			

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## APPENDIX: Certificate of Conformity

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### Ratings & Principle Characteristics:

Specifications table				
Model	HNS4950TL	HNS5000TL	HNS6000TL	HNS7000TL
<b>PV input</b>				
P pv Max(W)	7000	7000	8400	9800
Vmax PV (Vdc) (absolute Max.)	600	600	600	600
Isc PV (absolute Max.) (A)	18 x 2	18 x 2	18 x 2	18+35
Number MPP trackers	2	2	2	2
Number input strings	1/1	1/1	1/1	1/2
Max. PV input current (A)	14 x 2	14 x 2	14 x 2	14+26
MPPT voltage range (Vdc)	70-550	70-550	70-550	70-550
Vdc range @ full power (Vdc)	180-550	180-550	220-550	220-550
<b>AC Grid (output)</b>				
Normal AC Voltage (VAC)	L/N/PE, 220Vac, 230Vac, 240Vac			
Frequency (Hz)	50 / 60			
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)			
<b>Others</b>				
Protective class	Class I			
Ingress protection (IP)	IP65			
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			

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### Ratings & Principle Characteristics:

Specifications table				
Model	HNS8000TL	HNS9000TL	HNS10000TL	
<b>PV input</b>				
P pv Max(W)	11200	12600	14000	
Vmax PV (Vdc) (absolute Max.)	600	600	600	
Isc PV (absolute Max.) (A)	18+35	35 x 2	35 x 2	
Number MPP trackers	2	2	2	
Number input strings	1/2	2/2	2/2	
Max. PV input current (A)	14+26	26 x 2	26 x 2	
MPPT voltage range (Vdc)	70-550	70-550	70-550	
Vdc range @ full power (Vdc)	220-550	220-550	220-550	
<b>AC Grid (output)</b>				
Normal AC Voltage (VAC)	L/N/PE, 220Vac, 230Vac, 240Vac			
Frequency (Hz)	50 / 60			
Normal AC Current (A)	34.8	39.2	43.5	
Max. cont. output current (A)	38.3	45	50	
Normal Power (W)	8000	9000	10000	
Rated Apparent Power (VA)	8000	9000	10000	
Max. cont. Power (W)	8000	9000	10000	
Max. cont. Apparent Power (VA)	8000	9000	10000	
Power factor(adjustable)	1.0( -0.8~ +0.8)			
<b>Others</b>				
Protective class	Class I			
Ingress protection (IP)	IP65			
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			

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