

Test Verification of Conformity

Verification Number: 210702462SHA-V1

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. This verification is part of the full test report<s> and should be read in conjunction with it <them>.

Applicant Name & Address:	Afore New Energy Technology (Shanghai) Co., Ltd. Building No.7, 333 Wanfang Road, Minhang District, Shanghai, China 201112
Product Description:	Utility Interactive Inverter (Non-Isolated Inverter)
Ratings & Principle Characteristics:	See appendix for details
Models/Type References:	HNS followed by 3000, 3600, 4000, 5000, 6000, 7000, 8000, 9000 or 10000; followed by TL. HNS3600TL-1.
Brand Name:	Afore
Relevant Standards:	CFR 47 Part 15 (2019) ANSI C63.4 (2014)
Verification Issuing Office Name & Address:	Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
Date of test:	2021-08-09 ~ 2021-09-15
Test Report Number(s):	210702462SHA-001

Signature



Name: Jonny Jing
Position: Manager
Date: 2021-09-16

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 210702462SHA-V1.

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

Rating table:

Specifications table					
Model	HNS3000TL	HNS3600TL -1	HNS3600TL	HNS4000TL	HNS5000TL
PV Input:					
V _{max} PV (Vdc)	600	600	600	600	600
I _{sc} PV (absolute Max.) (A) / MPPT	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
Nominal input power (W)	3150	3750	3750	4150	5200
Operating 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
AC Output					
Normal Voltage(V)	220Vac 1Φ/PE				
Frequency (Hz)	60				
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 (adjustable)	1 (-0.8 to +0.8)				
others					
Ingress protection (IP)	NEMA 4X				
Temperature (°C)	- 25 to +60°C (Derating 45)				
Inverter Isolation	Non-isolated				
Overvoltage category	OVC II (PV), OVC III (AC Main)				

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Specifications table					
Model	HNS6000TL	HNS7000TL	HNS8000TL	HNS9000TL	HNS10000TL
PV Input:					
Vmax PV (Vdc)	600	600	600	600	600
Isc PV (absolute Max.) (A) / MPPT	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
Nominal input power (W)	6200	7300	8300	9400	10400
Operating 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
AC Output					
Normal Voltage(V)	220Vac 1 ϕ /PE				
Frequency (Hz)	60				
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 (adjustable)	1 (-0.8 to +0.8)				
others					
Ingress protection (IP)	NEMA 4X				
Temperature (°C)	- 25 to +60 (Derating 45)				
Inverter Isolation	Non-isolated				
Overvoltage category	OVC II (PV), OVC III (AC Main)				

Signature



Name: Jonny Jing
Position: Manager
Date: 2021-09-16

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