

# Test Verification of Conformity

Verification Number: 2412B0920SHA-V1

On the basis of the tests undertaken, the sample<s> of the below product has been tested by an accredited 3rd party laboratory in accordance to 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>.

This document can be used in support of a claim in meeting relevant < EU Low Voltage Directive (LVD) (2014/35/EU)>legislation and mandatory Conformity Marking. And in accordance with EU / UK law, the claim is the sole obligation of the Manufacturer/ Importer.

|   |  |
|---|--|
| Applicant Name & Address:                   | Afore New Energy Technology (Shanghai) Co., Ltd.<br>Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China. 201112 |
| Product Description:                        | Grid-connected PV inverter   |
| Ratings & Principle Characteristics:        | See Appendix(Specifications table)   |
| Models/Type References:                     | HNS1000TL-1, HNS1500TL-1, HNS2000TL-1, HNS2500TL-1, HNS3000TL-1  |
| Brand Names:                                | Afore  |
| Specification<s>/Standards:                 | IEC 60068-2-1: 2007<br>IEC 60068-2-2: 2007<br>IEC 60068-2-14:2009<br>IEC 60068-2-30: 2005                                    |
| Verification Issuing Office Name & Address: | Intertek Testing Services (Shanghai FTZ) Co., Ltd.<br>Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China      |
| Date of Tests:                              | 2024-12-11 to 2025-01-06   |
| Test Report Number(s):                      | 2412B0920SHA-001   |
| Additional information in Appendix.         |  |

Signature



Name: Max Jin

Position: General Manager

Date: 2025-01-20

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## APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2412B0920SHA-V1

Manufacture Name & Address: Same as applicant

| Specifications table           |                                |                 |                 |                 |                 |
|--------------------------------|--------------------------------|-----------------|-----------------|-----------------|-----------------|
| Model                          | HNS1000T<br>L-1                | HNS1500T<br>L-1 | HNS2000T<br>L-1 | HNS2500T<br>L-1 | HNS3000T<br>L-1 |
| <b>PV input</b>                |                                |                 |                 |                 |                 |
| P pv Max(W)                    | 1500                           | 2250            | 3000            | 3750            | 4200            |
| Vmax PV (Vdc) (absolute Max.)  | 500                            | 500             | 500             | 500             | 500             |
| Isc PV (absolute Max.) (A)     | 18                             | 18              | 18              | 18              | 18              |
| Number MPP trackers            | 1                              | 1               | 1               | 1               | 1               |
| Number input strings           | 1                              | 1               | 1               | 1               | 1               |
| Max. PV input current (A)      | 14                             | 14              | 14              | 14              | 14              |
| MPPT voltage range (Vdc)       | 50-500                         | 50-500          | 50-500          | 50-500          | 50-500          |
| Vdc range @ full power (Vdc)   | 70-500                         | 110-500         | 145-500         | 180-500         | 220-500         |
| <b>AC Grid (output)</b>        |                                |                 |                 |                 |                 |
| Normal AC Voltage (VAC)        | L/N/PE, 230Vac                 |                 |                 |                 |                 |
| Frequency (Hz)                 | 50                             |                 |                 |                 |                 |
| Normal AC Current (A)          | 4.4                            | 6.6             | 8.7             | 10.9            | 13.1            |
| Max. cont. output current (A)  | 6                              | 9               | 12              | 13              | 15              |
| Normal Power (W)               | 1000                           | 1500            | 2000            | 2500            | 3000            |
| Rated Apparent Power (VA)      | 1000                           | 1500            | 2000            | 2500            | 3000            |
| Max. cont. Power (W)           | 1000                           | 1500            | 2000            | 2500            | 3000            |
| Max. cont. Apparent Power (VA) | 1000                           | 1500            | 2000            | 2500            | 3000            |
| 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) |                 |                 |                 |                 |

Signature



Name: Max Jin

Position: General Manager

Date: 2025-01-20

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