

Test Verification of Conformity

Verification Number: 2408B2787SHA-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. Building 7, No.333 Wanfang Rd, Minhang District, Shanghai. China. 201112 |
| Product Description: | Hybrid inverter |
| Ratings & Principle Characteristics: | See Appendix(Specifications table) |
| Models/Type References: | AF*-SLP (*= 7K, 8K, 9K, 10K, 11K, 12K) AF*-SLP-0 (*= 7K, 8K, 9K, 10K, 11K, 12K) |
| Brand Names: | Afore |
| Specification<s>/Standards: | IEC/EN 62109 1:2010 IEC/EN 62109-2:2011 |
| Verification Issuing Office Name & Address: | Intertek Testing Services (Shanghai FTZ) Co., Ltd. Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China |
| Date of Tests: | 2024-09-03 to 2024-12-10 |
| Test Report Number(s): | 2408B2787SHA-001/002 |
| Additional information in Appendix. | |

Signature



Name: Max Jin

Position: General Manager

Date: 2024-12-12

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2408B2787SHA-V1

| Specifications table | | | | | | |
|--------------------------------------|--------------------------------|----------|----------|-----------|-----------|-----------|
| Model | AF7K-SLP | AF8K-SLP | AF9K-SLP | AF10K-SLP | AF11K-SLP | AF12K-SLP |
| PV input | | | | | | |
| P pv Max(kW) | 10.5 | 12 | 13.5 | 15 | 16.5 | 18 |
| Vmax PV (Vdc) (absolute Max.) | 550 | 550 | 550 | 550 | 550 | 550 |
| Isc PV (absolute Max.) (A) | 26 x 3 | 26 x 3 | 26 x 3 | 26 x 3 | 26 x 3 | 26 x 3 |
| Number MPP trackers | 3 | 3 | 3 | 3 | 3 | 3 |
| Number input strings | 1/1/2 | 1/1/2 | 1/1/2 | 1/1/2 | 1/1/2 | 1/1/2 |
| Max. PV input current / strings (A) | 18.5 x 3 | 18.5 x 3 | 18.5 x 3 | 18.5 x 3 | 18.5 x 3 | 18.5 x 3 |
| MPPT voltage range (Vdc) | 80-500 | 80-500 | 80-500 | 80-500 | 80-500 | 80-500 |
| Vdc range @ full power (Vdc) | 140-500 | 150-500 | 170-500 | 190-500 | 210-500 | 230-500 |
| Battery (charge/discharge) | | | | | | |
| Battery type | Li-ion/Lead-acid etc. | | | | | |
| Battery Normal Voltage (Range) (Vdc) | 51.2V (40-60V) | | | | | |
| Max charge/discharge Current(A) | 200 | 200 | 240 | 240 | 240 | 240 |
| Max charge/discharge Power(kW) | 7 | 8 | 9 | 10 | 11 | 12 |
| AC Grid (input and output) | | | | | | |
| Normal AC Voltage (VAC) | L/N/PE, 230Vac | | | | | |
| Frequency (Hz) | 50 | | | | | |
| Normal AC Current (A) | 30.5 | 34.8 | 39.2 | 43.5 | 47.9 | 52.2 |
| Max. cont. input/output current (A) | 32 | 37 | 41 | 46 | 50 | 55 |
| Rated Power(kW) | 7 | 8 | 9 | 10 | 11 | 12 |
| Rated Apparent Power (kVA) | 7 | 8 | 9 | 10 | 11 | 12 |
| Max. cont. Power (kW) | 7 | 8 | 9 | 10 | 11 | 12 |
| Max. cont. Apparent Power (kVA) | 7 | 8 | 9 | 10 | 11 | 12 |
| Power factor (adjustable) | 1.0(-0.8~ +0.8) | | | | | |
| AC Load output (stand alone) | | | | | | |
| Normal Voltage (VAC) | L/N/PE, 230Vac | | | | | |
| Frequency (Hz) | 50 | | | | | |
| Nominal Current(A) | 30.5 | 34.8 | 39.2 | 43.5 | 47.9 | 52.2 |
| Max. cont. current (A) | 32 | 37 | 41 | 46 | 50 | 55 |
| Max. cont. Power (kW) | 7 | 8 | 9 | 10 | 11 | 12 |
| Max. cont. Apparent Power (kVA) | 7 | 8 | 9 | 10 | 11 | 12 |
| Power factor | 1.0 | | | | | |
| Others | | | | | | |
| Ingress protection (IP) | IP66 | | | | | |
| Protective class | Class I | | | | | |
| Temperature (°C) | -25°C to +60°C (Derating 45°C) | | | | | |
| Inverter Isolation | Non-isolated (PV - AC - BAT) | | | | | |
| Overvoltage category | OVC III (AC Main), OVC II (DC) | | | | | |

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| Model | AF7K-SLP-0 | AF8K-SLP-0 | AF9K-SLP-0 | AF10K-SLP-0 | AF11K-SLP-0 | AF12K-SLP-0 |
| Battery (charge/discharge) | | | | | | |
| Battery type | Li-ion/Lead-acid etc. | | | | | |
| Battery Normal Voltage (Range) (Vdc) | 51.2V (40-60V) | | | | | |
| Max charge/discharge Current(A) | 200 | 200 | 240 | 240 | 240 | 240 |
| Max charge/discharge Power(kW) | 7 / 7.7 | 8 / 8.8 | 9 / 9.9 | 10 / 11 | 11 / 12.1 | 12 / 13.2 |
| AC Grid (input and output) | | | | | | |
| Normal AC Voltage (VAC) | L/N/PE, 230Vac | | | | | |
| Frequency (Hz) | 50 | | | | | |
| Normal AC Current (A) | 30.5 | 34.8 | 39.2 | 43.5 | 47.9 | 52.2 |
| Max. cont. input/output current (A) | 32 | 37 | 41 | 46 | 50 | 55 |
| Rated Power(kW) | 7 | 8 | 9 | 10 | 11 | 12 |
| Rated Apparent Power (kVA) | 7 | 8 | 9 | 10 | 11 | 12 |
| Max. cont. Power (kW) | 7 | 8 | 9 | 10 | 11 | 12 |
| Max. cont. Apparent Power (kVA) | 7 | 8 | 9 | 10 | 11 | 12 |
| Power factor (adjustable) | 1.0(-0.8~ +0.8) | | | | | |
| AC Load output (stand alone) | | | | | | |
| Normal Voltage (VAC) | L/N/PE, 230Vac | | | | | |
| Frequency (Hz) | 50 | | | | | |
| Nominal Current(A) | 30.5 | 34.8 | 39.2 | 43.5 | 47.9 | 52.2 |
| Max. cont. current (A) | 32 | 37 | 41 | 46 | 50 | 55 |
| Max. cont. Power (kW) | 7 | 8 | 9 | 10 | 11 | 12 |
| Max. cont. Apparent Power (kVA) | 7 | 8 | 9 | 10 | 11 | 12 |
| Power factor | 1.0 | | | | | |
| Others | | | | | | |
| Ingress protection (IP) | IP66 | | | | | |
| Protective class | Class I | | | | | |
| Temperature (°C) | -25°C to +60°C (Derating 45°C) | | | | | |
| Inverter Isolation | Non-isolated (AC - BAT) | | | | | |
| Overvoltage category | OVC III (AC Main), OVC II (DC) | | | | | |

Signature



Name: Max Jin

Position: General Manager

Date: 2024-12-12

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