

# Test Verification of Conformity

## Verification Number: 240300430SHA-V1

On the basis of the referenced test report(s), sample(s) tested of the below product have been found to comply with the standards harmonized with the directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it <them>.



Once compliance with all product relevant CE mark directives are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested sample(s).

|   |   |
|---|---|
| Applicant Name & Address:                   | Afore New Energy Technology (Shanghai) Co., Ltd.<br>Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China. 201112    |
| Product Description:                        | Hybrid inverter   |
| Ratings & Principle Characteristics:        | See Appendix  |
| Models/Type References:                     | See Appendix  |
| Brand Name:                                 | Afore   |
| Relevant Standards/Directives:              | IEC/EN 62109-1:2010<br>IEC/EN 62109-2:2011<br>EN 62477-1:2012+A11:2014+A1:2017+A12:2021<br>the Low Voltage Directive 2014/35/EU |
| Verification Issuing Office Name & Address: | Intertek Testing Services Shanghai<br>Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China                         |
| Date of Tests:                              | 2023-06-11 to 2023-11-08 & 2024-03-10 to 2024-03-18   |
| Test Report Number(s):                      | 230601215SHA-001/002 & 230601216SHA-001/002 & 240300431SHA-001  |



**Signature**

**Name: Max Jin**

**Position: General Manager**

**Date: 2024-03-18**

## APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 240300430SHA-V1

|                                   |  |
|-----------------------------------|--|
| <b>Model/Type reference .....</b> | AF*-SL-1 (*= 1K, 1.5K, 2K, 2.5K, 3K, 3.6K)<br>AF*-SL (*= 3K, 3.6K, 4K, 4.6K, 5K, 5.5K, 6K)<br>AF*-SLP (*=4K, 4.6K, 5K, 5.5K, 6K) |
| <b>Rating</b>                     | IP65, Class I,<br>-25°C to +60°C (Derating 45°C)<br>OVC III (AC Main), OVC II (PV)<br>Non-isolated (PV-AC-BAT)                   |
| <b>Model/Type reference .....</b> | AF*-SL-0 (*= 1K, 1.5K, 2K, 2.5K, 3K, 3.6K, 4K, 4.6K, 5K, 5.5K, 6K)   |
| <b>Rating</b>                     | IP65, Class I,<br>-25°C to +60°C (Derating 45°C)<br>OVC III (AC Main), OVC II (BAT)<br>Non-isolated (AC-BAT)                     |

### Other Ratings:

| Specifications table                      |                  |             |           |             |           |
|---|------------------|-------------|-----------|-------------|-----------|
| Model                                     | AF1K-SL-1        | AF1.5K-SL-1 | AF2K-SL-1 | AF2.5K-SL-1 | AF3K-SL-1 |
| <b>PV input</b>                           |                  |             |           |             |           |
| P <sub>pv</sub> Max(W)                    | 1500             | 2300        | 3000      | 3800        | 4500      |
| V <sub>max</sub> PV (Vdc) (absolute Max.) | 550              | 550         | 550       | 550         | 550       |
| I <sub>sc</sub> PV (absolute Max.) (A)    | 26               | 26          | 26        | 26          | 26        |
| Number MPP trackers                       | 1                | 1           | 1         | 1           | 1         |
| Number input strings                      | 1                | 1           | 1         | 1           | 1         |
| Max. PV input current / strings (A)       | 18.5             | 18.5        | 18.5      | 18.5        | 18.5      |
| MPPT voltage range (Vdc)                  | 80-500           | 80-500      | 80-500    | 80-500      | 80-500    |
| Vdc range @ full power (Vdc)              | 80-500           | 90-500      | 120-500   | 150-500     | 170-500   |
| <b>Battery (charge/discharge)</b>         |                  |             |           |             |           |
| Battery type                              | Li-ion/Lead-acid |             |           |             |           |
| Battery Normal Voltage (Range) (Vdc)      | 51.2V (40-60V)   |             |           |             |           |
| Max charge/discharge Current(A)           | 25               | 40          | 50        | 63          | 80        |
| Max charge/discharge Power(W)             | 1000             | 1500        | 2000      | 2500        | 3000      |
| <b>AC Grid (input and 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. input/output current (A)       | 5                | 7           | 10        | 12          | 14        |
| Rated Power(W)                            | 1000             | 1500        | 2000      | 2500        | 3000      |
| Rated Apparent Power (VA)                 | 1000             | 1500        | 2000      | 2500        | 3000      |

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| Specifications table                |                  |             |           |             |           |
|-------------------------------------|------------------|-------------|-----------|-------------|-----------|
| Model                               | AF1K-SL-1        | AF1.5K-SL-1 | AF2K-SL-1 | AF2.5K-SL-1 | AF3K-SL-1 |
| 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>AC Load output (stand alone)</b> |                  |             |           |             |           |
| Normal Voltage (VAC)                | L/N/PE, 230Vac   |             |           |             |           |
| Frequency (Hz)                      | 50               |             |           |             |           |
| Nominal Current(A)                  | 4.4              | 6.6         | 8.7       | 10.9        | 13.1      |
| Max. cont. current (A)              | 5                | 7           | 10        | 12          | 14        |
| Max. cont. Power (W)                | 1000             | 1500        | 2000      | 2500        | 3000      |
| Rated Apparent Power (VA)           | 1000             | 1500        | 2000      | 2500        | 3000      |
| Max. cont. Apparent Power (VA)      | 1000             | 1500        | 2000      | 2500        | 3000      |
| Power factor                        | 1.0              |             |           |             |           |

| Specifications table                 |                  |          |           |          |
|--------------------------------------|------------------|----------|-----------|----------|
| Model                                | AF3.6K-SL-1      | AF3K-SL  | AF3.6K-SL | AF4K-SL  |
| <b>PV input</b>                      |                  |          |           |          |
| P pv Max(W)                          | 5400             | 4500     | 5400      | 6000     |
| Vmax PV (Vdc) (absolute Max.)        | 550              | 550      | 550       | 550      |
| Isc PV (absolute Max.) (A)           | 26               | 26 x 2   | 26 x 2    | 26 x 2   |
| Number MPP trackers                  | 1                | 2        | 2         | 2        |
| Number input strings                 | 1                | 1/1      | 1/1       | 1/1      |
| Max. PV input current / strings (A)  | 18.5             | 18.5 x 2 | 18.5 x 2  | 18.5 x 2 |
| MPPT voltage range (Vdc)             | 80-500           | 80-500   | 80-500    | 80-500   |
| Vdc range @ full power (Vdc)         | 210-500          | 90-500   | 110-500   | 120-500  |
| <b>Battery (charge/discharge)</b>    |                  |          |           |          |
| Battery type                         | Li-ion/Lead-acid |          |           |          |
| Battery Normal Voltage (Range) (Vdc) | 51.2V (40-60V)   |          |           |          |
| Max charge/discharge Current(A)      | 80               | 80       | 80        | 80       |
| Max charge/discharge Power(W)        | 3600             | 3000     | 3600      | 4000     |
| <b>AC Grid (input and output)</b>    |                  |          |           |          |
| Normal AC Voltage (VAC)              | L/N/PE, 230Vac   |          |           |          |
| Frequency (Hz)                       | 50               |          |           |          |
| Normal AC Current (A)                | 15.7             | 13.1     | 15.7      | 17.4     |
| Max. cont. input/output current (A)  | 17               | 14       | 17        | 19       |
| Normal Power (W)                     | 3600             | 3000     | 3600      | 4000     |
| Rated Apparent Power (VA)            | 3600             | 3000     | 3600      | 4000     |
| Max. cont. input/output Power (W)    | 3600             | 3000     | 3600      | 4000     |
| Max. cont. Apparent Power (VA)       | 3600             | 3000     | 3600      | 4000     |
| Power factor(adjustable)             | 1.0( -0.8~ +0.8) |          |           |          |
| <b>AC Load output (stand alone)</b>  |                  |          |           |          |
| Normal Voltage (VAC)                 | L/N/PE, 230Vac   |          |           |          |
| Frequency (Hz)                       | 50               |          |           |          |
| Nominal Current (A)                  | 15.7             | 13.1     | 15.7      | 17.4     |
| Max. cont. current (A)               | 17               | 14       | 17        | 19       |
| Max. cont. Power (W)                 | 3600             | 3000     | 3600      | 4000     |
| Rated Apparent Power (VA)            | 3600             | 3000     | 3600      | 4000     |
| Max. cont. Apparent Power (VA)       | 3600             | 3000     | 3600      | 4000     |
| Power factor                         | 1.0              |          |           |          |

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| Specifications table                 |                  |          |           |          |
|--------------------------------------|------------------|----------|-----------|----------|
| Model                                | AF4.6K-SL        | AF5K-SL  | AF5.5K-SL | AF6K-SL  |
| <b>PV input</b>                      |                  |          |           |          |
| P pv Max(W)                          | 6900             | 7500     | 8300      | 9000     |
| Vmax PV (Vdc) (absolute Max.)        | 550              | 550      | 550       | 550      |
| Isc PV (absolute Max.) (A)           | 26 x 2           | 26 x 2   | 26 x 2    | 26 x 2   |
| Number MPP trackers                  | 2                | 2        | 2         | 2        |
| Number input strings                 | 1/1              | 1/1      | 1/1       | 1/1      |
| Max. PV input current / strings (A)  | 18.5 x 2         | 18.5 x 2 | 18.5 x 2  | 18.5 x 2 |
| MPPT voltage range (Vdc)             | 80-500           | 80-500   | 80-500    | 80-500   |
| Vdc range @ full power (Vdc)         | 130-500          | 150-500  | 160-500   | 170-500  |
| <b>Battery (charge/discharge)</b>    |                  |          |           |          |
| Battery type                         | Li-ion/Lead-acid |          |           |          |
| Battery Normal Voltage (Range) (Vdc) | 51.2V (40-60V)   |          |           |          |
| Max charge/discharge Current(A)      | 80               | 80       | 80        | 80       |
| Max charge/discharge Power(W)        | 4600             | 4800     | 4800      | 4800     |
| <b>AC Grid (input and output)</b>    |                  |          |           |          |
| Normal AC Voltage (VAC)              | L/N/PE, 230Vac   |          |           |          |
| Frequency (Hz)                       | 50               |          |           |          |
| Normal AC Current (A)                | 20               | 21.8     | 24        | 26.1     |
| Max. cont. input/output current (A)  | 22               | 23       | 26        | 28       |
| Normal Power (W)                     | 4600             | 5000     | 5500      | 6000     |
| Rated Apparent Power (VA)            | 4600             | 5000     | 5500      | 6000     |
| Max. cont. input/output Power (W)    | 4600             | 5000     | 5500      | 6000     |
| Max. cont. Apparent Power (VA)       | 4600             | 5000     | 5500      | 6000     |
| Power factor(adjustable)             | 1.0( -0.8~ +0.8) |          |           |          |
| <b>AC Load output (stand alone)</b>  |                  |          |           |          |
| Normal Voltage (VAC)                 | L/N/PE, 230Vac   |          |           |          |
| Frequency (Hz)                       | 50               |          |           |          |
| Nominal Current(A)                   | 20               | 21.8     | 24        | 26.1     |
| Max. cont. current (A)               | 22               | 23       | 26        | 28       |
| Max. cont. Power (W)                 | 4600             | 5000     | 5500      | 6000     |
| Rated Apparent Power (VA)            | 4600             | 5000     | 5500      | 6000     |
| Max. cont. Apparent Power (VA)       | 4600             | 5000     | 5500      | 6000     |
| Power factor                         | 1.0              |          |           |          |

| Specifications table                 |                       |            |          |            |          |
|--------------------------------------|-----------------------|------------|----------|------------|----------|
| Model                                | AF4K-SLP              | AF4.6K-SLP | AF5K-SLP | AF5.5K-SLP | AF6K-SLP |
| <b>PV input</b>                      |                       |            |          |            |          |
| P pv Max(W)                          | 6000                  | 6900       | 7500     | 8300       | 9000     |
| Vmax PV (Vdc) (absolute Max.)        | 550                   | 550        | 550      | 550        | 550      |
| Isc PV (absolute Max.) (A)           | 26 x 2                | 26 x 2     | 26 x 2   | 26 x 2     | 26 x 2   |
| Number MPP trackers                  | 2                     | 2          | 2        | 2          | 2        |
| Number input strings                 | 1/1                   | 1/1        | 1/1      | 1/1        | 1/1      |
| Max. PV input current / strings (A)  | 18.5 x 2              | 18.5 x 2   | 18.5 x 2 | 18.5 x 2   | 18.5 x 2 |
| MPPT voltage range (Vdc)             | 80-500                | 80-500     | 80-500   | 80-500     | 80-500   |
| Vdc range @ full power (Vdc)         | 120-500               | 130-500    | 150-500  | 160-500    | 170-500  |
| <b>Battery (charge/discharge)</b>    |                       |            |          |            |          |
| Battery type                         | Li-ion/Lead-acid etc. |            |          |            |          |
| Battery Normal Voltage (Range) (Vdc) | 51.2V (40-60V)        |            |          |            |          |

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| Specifications table                |                  |            |          |            |          |
|-------------------------------------|------------------|------------|----------|------------|----------|
| Model                               | AF4K-SLP         | AF4.6K-SLP | AF5K-SLP | AF5.5K-SLP | AF6K-SLP |
| Max charge/discharge Current(A)     | 120              | 120        | 120      | 120        | 120      |
| Max charge/discharge Power(W)       | 4000             | 4600       | 5000     | 5500       | 6000     |
| <b>AC Grid (input and output)</b>   |                  |            |          |            |          |
| Normal AC Voltage (VAC)             | L/N/PE, 230Vac   |            |          |            |          |
| Frequency (Hz)                      | 50               |            |          |            |          |
| Normal AC Current (A)               | 17.4             | 20         | 21.8     | 24         | 26.1     |
| Max. cont. input/output current (A) | 19               | 22         | 23       | 26         | 28       |
| Rated Power(W)                      | 4000             | 4600       | 5000     | 5500       | 6000     |
| Rated Apparent Power (VA)           | 4000             | 4600       | 5000     | 5500       | 6000     |
| Max. cont. Power (W)                | 4000             | 4600       | 5000     | 5500       | 6000     |
| Max. cont. Apparent Power (VA)      | 4000             | 4600       | 5000     | 5500       | 6000     |
| Power factor (adjustable)           | 1.0( -0.8~ +0.8) |            |          |            |          |
| <b>AC Load output (stand alone)</b> |                  |            |          |            |          |
| Normal Voltage (VAC)                | L/N/PE, 230Vac   |            |          |            |          |
| Frequency (Hz)                      | 50               |            |          |            |          |
| Nominal Current(A)                  | 17.4             | 20         | 21.8     | 24         | 26.1     |
| Max. cont. current (A)              | 19               | 22         | 23       | 26         | 28       |
| Max. cont. Power (W)                | 4000             | 4600       | 5000     | 5500       | 6000     |
| Max. cont. Apparent Power (VA)      | 4000             | 4600       | 5000     | 5500       | 6000     |
| Power factor                        | 1.0              |            |          |            |          |

| Specifications table                 |                  |             |           |             |
|--------------------------------------|------------------|-------------|-----------|-------------|
| Model                                | AF1K-SL-0        | AF1.5K-SL-0 | AF2K-SL-0 | AF2.5K-SL-0 |
| <b>Battery (charge/discharge)</b>    |                  |             |           |             |
| Battery type                         | Li-ion/Lead-acid |             |           |             |
| Battery Normal Voltage (Range) (Vdc) | 51.2V (40-60V)   |             |           |             |
| Max charge/discharge Current(A)      | 25               | 40          | 50        | 63          |
| Max charge/discharge Power(W)        | 1000             | 1500        | 2000      | 2500        |
| <b>AC Grid (input and 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        |
| Max. cont. input/output current (A)  | 5                | 7           | 10        | 12          |
| Rated Power(W)                       | 1000             | 1500        | 2000      | 2500        |
| Rated Apparent Power (VA)            | 1000             | 1500        | 2000      | 2500        |
| Max. cont. Power (W)                 | 1000             | 1500        | 2000      | 2500        |
| Max. cont. Apparent Power (VA)       | 1000             | 1500        | 2000      | 2500        |
| Power factor (adjustable)            | 1.0( -0.8~ +0.8) |             |           |             |
| <b>AC Load output (stand alone)</b>  |                  |             |           |             |
| Normal Voltage (VAC)                 | L/N/PE, 230Vac   |             |           |             |
| Frequency (Hz)                       | 50               |             |           |             |
| Nominal Current(A)                   | 4.4              | 6.6         | 8.7       | 10.9        |
| Max. cont. current (A)               | 5                | 7           | 10        | 12          |
| Max. cont. Power (W)                 | 1000             | 1500        | 2000      | 2500        |
| Rated Apparent Power (VA)            | 1000             | 1500        | 2000      | 2500        |
| Max. cont. Apparent Power (VA)       | 1000             | 1500        | 2000      | 2500        |
| Power factor                         | 1.0              |             |           |             |

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| Specifications table                 |                  |             |           |             |
|--------------------------------------|------------------|-------------|-----------|-------------|
| Model                                | AF3K-SL-0        | AF3.6K-SL-0 | AF4K-SL-0 | AF4.6K-SL-0 |
| <b>Battery (charge/discharge)</b>    |                  |             |           |             |
| Battery type                         | Li-ion/Lead-acid |             |           |             |
| Battery Normal Voltage (Range) (Vdc) | 51.2V (40-60V)   |             |           |             |
| Max charge/discharge Current(A)      | 80               | 80          | 120       | 120         |
| Max charge/discharge Power(W)        | 3000             | 3600        | 4000      | 4600        |
| <b>AC Grid (input and output)</b>    |                  |             |           |             |
| Normal AC Voltage (VAC)              | L/N/PE, 230Vac   |             |           |             |
| Frequency (Hz)                       | 50               |             |           |             |
| Normal AC Current (A)                | 13.1             | 15.7        | 17.4      | 20          |
| Max. cont. input/output current (A)  | 14               | 17          | 19        | 22          |
| Normal Power (W)                     | 3000             | 3600        | 4000      | 4600        |
| Rated Apparent Power (VA)            | 3000             | 3600        | 4000      | 4600        |
| Max. cont. input/output Power (W)    | 3000             | 3600        | 4000      | 4600        |
| Max. cont. Apparent Power (VA)       | 3000             | 3600        | 4000      | 4600        |
| Power factor(adjustable)             | 1.0( -0.8~ +0.8) |             |           |             |
| <b>AC Load output (stand alone)</b>  |                  |             |           |             |
| Normal Voltage (VAC)                 | L/N/PE, 230Vac   |             |           |             |
| Frequency (Hz)                       | 50               |             |           |             |
| Nominal Current (A)                  | 13.1             | 15.7        | 17.4      | 20          |
| Max. cont. current (A)               | 14               | 17          | 19        | 22          |
| Max. cont. Power (W)                 | 3000             | 3600        | 4000      | 4600        |
| Rated Apparent Power (VA)            | 3000             | 3600        | 4000      | 4600        |
| Max. cont. Apparent Power (VA)       | 3000             | 3600        | 4000      | 4600        |
| Power factor                         | 1.0              |             |           |             |

| Specifications table                 |                  |             |           |  |
|--------------------------------------|------------------|-------------|-----------|--|
| Model                                | AF5K-SL-0        | AF5.5K-SL-0 | AF6K-SL-0 |  |
| <b>Battery (charge/discharge)</b>    |                  |             |           |  |
| Battery type                         | Li-ion/Lead-acid |             |           |  |
| Battery Normal Voltage (Range) (Vdc) | 51.2V (40-60V)   |             |           |  |
| Max charge/discharge Current(A)      | 120              | 120         | 120       |  |
| Max charge/discharge Power(W)        | 5000             | 5500        | 6000      |  |
| <b>AC Grid (input and output)</b>    |                  |             |           |  |
| Normal AC Voltage (VAC)              | L/N/PE, 230Vac   |             |           |  |
| Frequency (Hz)                       | 50               |             |           |  |
| Normal AC Current (A)                | 21.8             | 24          | 26.1      |  |
| Max. cont. input/output current (A)  | 23               | 26          | 28        |  |
| Normal Power (W)                     | 5000             | 5500        | 6000      |  |
| Rated Apparent Power (VA)            | 5000             | 5500        | 6000      |  |
| Max. cont. input/output Power (W)    | 5000             | 5500        | 6000      |  |
| Max. cont. Apparent Power (VA)       | 5000             | 5500        | 6000      |  |
| Power factor(adjustable)             | 1.0( -0.8~ +0.8) |             |           |  |
| <b>AC Load output (stand alone)</b>  |                  |             |           |  |
| Normal Voltage (VAC)                 | L/N/PE, 230Vac   |             |           |  |
| Frequency (Hz)                       | 50               |             |           |  |
| Nominal Current(A)                   | 21.8             | 24          | 26.1      |  |
| Max. cont. current (A)               | 23               | 26          | 28        |  |
| Max. cont. Power (W)                 | 5000             | 5500        | 6000      |  |

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| Specifications table           |           |             |           |     |
|--------------------------------|-----------|-------------|-----------|-----|
| Model                          | AF5K-SL-0 | AF5.5K-SL-0 | AF6K-SL-0 |     |
| Rated Apparent Power (VA)      | 5000      | 5500        | 6000      |     |
| Max. cont. Apparent Power (VA) | 5000      | 5500        | 6000      |     |
| Power factor                   |           |             |           | 1.0 |



**Signature**

**Name: Max Jin**

**Position: General Manager**

**Date: 2024-03-18**

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