

Certificate of Conformity

Certificate Number: CN-PV-230262

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.

Afore New Energy Technology (Shanghai) Co., Ltd. Applicant:

Build No.7, 333 Wanfang Road, Minhang District, Shanghai. China. 201112

Product: Hybrid Inverter

Ratings & Principle See appendix of Certificate of Conformity **Characteristics:**

Model: AF3K-TH, AF4K-TH, AF5K-TH, AF6K-TH, AF8K-TH, AF10K-TH, AF12K-TH, AF15K-

TH, AF17K-TH, AF20K-TH, AF25K-TH, AF30K-TH, AF3K-THP, AF4K-THP, AF5K-

THP, AF6K-THP, AF8K-THP, AF10K-THP, AF12K-THP

Brand Name<s>: Afore

Product Complies with: NRS 097-2-1:2017

Certificate Issuing Office Intertek Testing Services Ltd. Shanghai

Name & Address: West Area, 2nd 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

230500127SHA-001 Test Report No.<s>:

Additional information in Appendix.

Signature

Certification Manager: Qiao Qiao

Date: 25 May 2023



PRD N° 306B

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This is an Appendix to Certificate of Conformity Number: CN-PV-230262

Ratings & Principal Characteristics:

Remark: Below model compliance with NRS 097-2-1:2017 Edition 2.1

| Specifications table | | | | | |
|--|--------------------------------|-----------------------|---------------------|-----------|--|
| Model | AF3K-TH | AF4K-TH | AF5K-TH | AF6K-TH | |
| PV input | | • | | | |
| P pv Max(kW) | 5 | 6 | 7.5 | 9 | |
| Vmax PV (Vdc) (absolute Max.) | 1000 | 1000 | 1000 | 1000 | |
| Isc PV (absolute Max.) (A) | 30*2 | 30*2 | 30*2 | 30*2 | |
| Number MPP trackers | 2 | 2 | 2 | 2 | |
| Number input strings | 1/1 | 1/1 | 1/1 | 1/1 | |
| Max. PV input current (A) | 20*2 | 20*2 | 20*2 | 20*2 | |
| MPPT voltage range (Vdc) | 150-850 | 150-850 | 150-850 | 150-850 | |
| Vdc range @ full power (Vdc) | 200-850 | 200-850 | 200-850 | 250-850 | |
| Battery (charge/discharge) | | | | | |
| Battery type | | Li-ion/Le | ead-acid | | |
| Battery Normal Voltage Range (Vdc) | • | 150-800(Field adapt b | oattery voltage rar | ige) | |
| Max charge/discharge Current(A) | 30 | 30 | 30 | 30 | |
| Max charge/discharge Power(kW) | 3 | 4 | 5 | 6 | |
| AC Grid (input and output) | | • | | | |
| Normal AC Voltage (VAC) | 3P+N+PE/3P+PE 230/400 | | | | |
| Frequency (Hz) | - | 5 | 0 | | |
| Normal AC Current (A) | 4.4 | 5.8 | 7.3 | 8.7 | |
| Max. cont. input/output current (A) | 8 / 5.3 | 10.5 / 7 | 13 / 8.5 | 16 / 10.5 | |
| Rated Power (kW) | 3 | 4 | 5 | 6 | |
| Rated Apparent Power (kVA) | 3 | 4 | 5 | 6 | |
| Max. cont. input/output Power (kW) | 4.5 / 3.3 | 6 / 4.4 | 7.5 / 5.5 | 9 / 6.6 | |
| Max. cont. Apparent input/output Power (kVA) | 4.5 / 3.3 | 6 / 4.4 | 7.5 / 5.5 | 9 / 6.6 | |
| Power factor(adjustable) | | 1.0(-0.8 | 3~ +0.8) | | |
| AC Load output (stand alone) | | | · | | |
| Normal Voltage (VAC) | 3P+N+PE/3P+PE 230/400 | | | | |
| Frequency (Hz) | 50 | | | | |
| Nominal Current (A) | 4.4 | 5.8 | 7.3 | 8.7 | |
| Max. cont. current (A) | 5.3 | 7 | 8.5 | 10.5 | |
| Max. cont. Power (kW) | 3 | 4 | 5 | 6 | |
| Rated Apparent Power (kVA) | 3 | 4 | 5 | 6 | |
| Max. cont. Apparent Power (kVA) | 3 | 4 | 5 | 6 | |
| Power factor | 1.0 | | | | |
| Others | | | | | |
| Ingress protection (IP) | IP65 | | | | |
| Protective class | Class I | | | | |
| Temperature (℃) | -25°C to +60°C (Derating 45°C) | | | | |
| Inverter Isolation | Non-isolated (PV - AC - BAT) | | | | |
| Overvoltage category | OVC III (AC Main), OVC II (PV) | | | | |
| Firmware Version | | V1 | | | |
| Software Version | V01 | | | | |

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Ratings & Principal Characteristics:

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| Specifications table | | | | |
|--|--------------------------------|---------------------|---------------------|-------------|
| Model | AF8K-TH | AF10K-TH | AF12K-TH | AF15K-TH |
| PV input | | | | |
| P pv Max(kW) | 12 | 15 | 18 | 22.5 |
| Vmax PV (Vdc) (absolute Max.) | 1000 | 1000 | 1000 | 1000 |
| Isc PV (absolute Max.) (A) | 30*2 | 30*2 | 30*2 | 30+48 |
| Number MPP trackers | 2 | 2 | 2 | 2 |
| Number input strings | 1/1 | 1/1 | 1/1 | 1/2 |
| Max. PV input current (A) | 20*2 | 20*2 | 20*2 | 20+32 |
| MPPT voltage range (Vdc) | 150-850 | 150-850 | 150-850 | 150-850 |
| Vdc range @ full power (Vdc) | 300-850 | 500-850 | 500-850 | 500-850 |
| Battery (charge/discharge) | | | | |
| Battery type | | Li-ion/Le | ead-acid | |
| Battery Normal Voltage Range (Vdc) | 15 | 0-800(Field adapt l | oattery voltage ran | ige) |
| Max charge/discharge Current(A) | 30 | 30 | 30 | 50 |
| Max charge/discharge Power(kW) | 8 | 10 | 12 | 15 |
| AC Grid (input and output) | | | | |
| Normal AC Voltage (VAC) | | 3P+N+PE/3P | +PE 230/400 | |
| Frequency (Hz) | | 5 | 0 | |
| Normal AC Current (A) | 11.6 | 14.5 | 17.4 | 21.8 |
| Max. cont. input/output current (A) | 20 / 13.5 | 26 / 17 | 32 / 21.5 | 40.5 / 27 |
| Rated Power (kW) | 8 | 10 | 12 | 15 |
| Rated Apparent Power (kVA) | 8 | 10 | 12 | 15 |
| Max. cont. input/output Power (kW) | 12 / 8.8 | 15 / 11 | 18 / 13.2 | 22.5 / 16.5 |
| Max. cont. Apparent input/output Power (kVA) | 12 / 8.8 | 15 / 11 | 18 / 13.2 | 22.5 / 16.5 |
| Power factor(adjustable) | 1.0(-0.8~ +0.8) | | | |
| AC Load output (stand alone) | | | | |
| Normal Voltage (VAC) | 3P+N+PE/3P+PE 230/400 | | | |
| Frequency (Hz) | 50 | | | |
| Nominal Current (A) | 11.6 | 14.5 | 17.4 | 21.8 |
| Max. cont. current (A) | 13.5 | 17 | 21.5 | 27 |
| Max. cont. Power (kW) | 8 | 10 | 12 | 15 |
| Rated Apparent Power (kVA) | 8 | 10 | 12 | 15 |
| Max. cont. Apparent Power (kVA) | 8 | 10 | 12 | 15 |
| Power factor | 1.0 | | | |
| Others | | | | |
| Ingress protection (IP) | IP65 | | | |
| 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 (PV) | | | |
| Firmware Version | V1.01 | | | |
| Software Version | V01 | | | |

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Ratings & Principal Characteristics:

Remark: Below model compliance with NRS 097-2-1:2017 Edition 2.1

| Specifications table | | | | |
|--|--------------------------------|------------|---------------------|-----------|
| Model | AF3K-THP | AF4K-THP | AF5K-THP | AF6K-THP |
| PV input | | | | |
| P pv Max(kW) | 5 | 6 | 7.5 | 9 |
| Vmax PV (Vdc) (absolute Max.) | 1000 | 1000 | 1000 | 1000 |
| Isc PV (absolute Max.) (A) | 30*2 | 30*2 | 30*2 | 30*2 |
| Number MPP trackers | 2 | 2 | 2 | 2 |
| Number input strings | 1/1 | 1/1 | 1/1 | 1/1 |
| Max. PV input current (A) | 20*2 | 20*2 | 20*2 | 20*2 |
| MPPT voltage range (Vdc) | 150-850 | 150-850 | 150-850 | 150-850 |
| Vdc range @ full power (Vdc) | 200-850 | 200-850 | 200-850 | 250-850 |
| Battery (charge/discharge) | | | | |
| Battery type | | Li-ion/L | ead-acid | |
| Battery Normal Voltage Range (Vdc) | 80 | | attery voltage rang | ge) |
| Max charge/discharge Current(A) | 50 | 50 | 50 | 50 |
| Max charge/discharge Power(kW) | 3 | 4 | 5 | 6 |
| AC Grid (input and output) | - | <u> </u> | | |
| Normal AC Voltage (VAC) | - 0 1 | 3P+N+PE/3F | P+PE 230/400 | |
| Frequency (Hz) | | 5 | 50 | |
| Normal AC Current (A) | 4.4 | 5.8 | 7.3 | 8.7 |
| Max. cont. input/output current (A) | 8 / 5.3 | 10.5 / 7 | 13 / 8.5 | 16 / 10.5 |
| Rated Power (kW) | 3 | 4 | 5 | 6 |
| Rated Apparent Power (kVA) | 3 | 4 | 5 | 6 |
| Max. cont. input/output Power (kW) | 4.5 / 3.3 | 6 / 4.4 | 7.5 / 5.5 | 9 / 6.6 |
| Max. cont. Apparent input/output Power (kVA) | 4.5 / 3.3 | 6 / 4.4 | 7.5 / 5.5 | 9 / 6.6 |
| Power factor(adjustable) | 1.0(-0.8~ +0.8) | | | |
| AC Load output (stand alone) | | | | |
| Normal Voltage (VAC) | 3P+N+PE/3P+PE 230/400 | | | |
| Frequency (Hz) | 50 | | | |
| Nominal Current (A) | 4.4 | 5.8 | 7.3 | 8.7 |
| Max. cont. current (A) | 5.3 | 7 | 8.5 | 10.5 |
| Max. cont. Power (kW) | 3 | 4 | 5 | 6 |
| Rated Apparent Power (kVA) | 3 | 4 | 5 | 6 |
| Max. cont. Apparent Power (kVA) | 3 | 4 | 5 | 6 |
| Power factor | 1.0 | | | |
| Others | | | | |
| Ingress protection (IP) | IP65 | | | |
| 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 (PV) | | | |
| Firmware Version | V1.01 | | | |
| Software Version | V01 | | | |

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Ratings & Principal Characteristics:

Remark: Below model compliance with NRS 097-2-1:2017 Edition 2.1

| Specifications table | | T | | |
|--|--|----------------------------------|-----------|--|
| Model | AF8K-THP | AF10K-THP | AF12K-THP | |
| PV input | | | | |
| P pv Max(kW) | 12 | 15 | 18 | |
| Vmax PV (Vdc) (absolute Max.) | 1000 | 1000 | 1000 | |
| Isc PV (absolute Max.) (A) | 30*2 | 30*2 | 30*2 | |
| Number MPP trackers | 2 | 2 | 2 | |
| Number input strings | 1/1 | 1/1 | 1/1 | |
| Max. PV input current (A) | 20*2 | 20*2 | 20*2 | |
| MPPT voltage range (Vdc) | 150-850 | 150-850 | 150-850 | |
| Vdc range @ full power (Vdc) | 300-850 | 500-850 | 500-850 | |
| Battery (charge/discharge) | | | | |
| Battery type | | _i-ion/Lead-acid | | |
| Battery Normal Voltage Range (Vdc) | 80-600 (Field adapt battery voltage range) | ttery (Field adapt battery volta | | |
| Max charge/discharge Current(A) | 50 | 50 | 50 | |
| Max charge/discharge Power(kW) | 8 | 10 | 12 | |
| AC Grid (input and output) | | | | |
| Normal AC Voltage (VAC) | 3P+N | +PE/3P+PE 230/400 | | |
| Frequency (Hz) | | 50 | | |
| Normal AC Current (A) | 11.6 | 14.5 | 17.4 | |
| Max. cont. input/output current (A) | 20 / 13.5 | 26 / 17 | 32 / 21.5 | |
| Rated Power (kW) | 8 | 10 | 12 | |
| Rated Apparent Power (kVA) | 8 | 10 | 12 | |
| Max. cont. input/output Power (kW) | 12 / 8.8 | 15 / 11 | 18 / 13.2 | |
| Max. cont. Apparent input/output Power (kVA) | 12 / 8.8 | 15 / 11 | 18 / 13.2 | |
| Power factor(adjustable) | | 1.0(-0.8~ +0.8) | | |
| AC Load output (stand alone) | | | | |
| Normal Voltage (VAC) | 3P+N+PE/3P+PE 230/400 | | | |
| Frequency (Hz) | | 50 | | |
| Nominal Current (A) | 11.6 | 14.5 | 17.4 | |
| Max. cont. current (A) | 13.5 | 17 | 21.5 | |
| Max. cont. Power (kW) | 8 | 10 | 12 | |
| Rated Apparent Power (kVA) | 8 | 10 | 12 | |
| Max. cont. Apparent Power (kVA) | 8 | 10 | 12 | |
| Power factor | | 1.0 | | |
| Others | | | | |
| Ingress protection (IP) | IP65 | | | |
| Protective class | Class I | | | |
| Temperature (°C) | -25°C to +60°C (Derating 45°C) | | | |
| Inverter Isolation | | plated (PV - AC - BAT) | , | |
| Overvoltage category | OVC III (AC Main), OVC II (PV) | | | |
| Firmware Version | V1.01 | | | |
| Software Version | V1.01 V01 | | | |

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Ratings & Principal Characteristics:

Remark: Below model compliance with NRS 097-2-1:2017 Edition 2.1

| | Specification | s table | | |
|--|--------------------------------|---------------------|---------------------|----------|
| Model | AF17K-TH | AF20K-TH | AF25K-TH | AF30K-TH |
| PV input | | | | |
| P pv Max(kW) | 25.5 | 30 | 37.5 | 45 |
| Vmax PV (Vdc) (absolute Max.) | 1000 | 1000 | 1000 | 1000 |
| Isc PV (absolute Max.) (A) | 48*2 | 48*2 | 60*2 | 60*2 |
| Number MPP trackers | 2 | 2 | 2 | 2 |
| Number input strings | 2/2 | 2/2 | 2/2 | 2/2 |
| Max. PV input current (A) | 32*2 | 32*2 | 40*2 | 40*2 |
| MPPT voltage range (Vdc) | 150-850 | 150-850 | 150-850 | 150-850 |
| Vdc range @ full power (Vdc) | 500-850 | 500-850 | 500-850 | 500-850 |
| Battery (charge/discharge) | | | | |
| Battery type | | Li-ion/Le | ead-acid | |
| Battery Normal Voltage Range (Vdc) | 150 |)-800(Field adapt l | oattery voltage ran | ge) |
| Max charge/discharge Current(A) | 50 | 50 | 60 | 60 |
| Max charge/discharge Power(kW) | 17 | 20 | 25 | 30 |
| AC Grid (input and output) | | | | |
| Normal AC Voltage (VAC) | 3P+N+PE/3P+PE 230/400 | | | |
| Frequency (Hz) | | 5 | 60 | |
| Normal AC Current (A) | 24.7 | 29 | 36.3 | 43.5 |
| Max. cont. input/output current (A) | 45 / 30 | 48 / 32 | 60 / 40 | 72 / 48 |
| Rated Power (kW) | 17 | 20 | 25 | 30 |
| Rated Apparent Power (kVA) | 17 | 20 | 25 | 30 |
| Max. cont. input/output Power (kW) | 25.5 / 18.7 | 30 / 22 | 37.5 / 27.5 | 45 / 33 |
| Max. cont. Apparent input/output Power (kVA) | 25.5 / 18.7 | 30 / 22 | 37.5 / 27.5 | 45 / 33 |
| Power factor(adjustable) | | 1.0(-0.8 | 8~ +0.8) | |
| AC Load output (stand alone) | | | | |
| Normal Voltage (VAC) | | 3P+N+PE/3P | P+PE 230/400 | |
| Frequency (Hz) | 50 | | | |
| Nominal Current (A) | 24.7 | 29 | 36.3 | 43.5 |
| Max. cont. current (A) | 30 | 32 | 40 | 48 |
| Max. cont. Power (kW) | 17 | 20 | 25 | 30 |
| Rated Apparent Power (kVA) | 17 | 20 | 25 | 30 |
| Max. cont. Apparent Power (kVA) | 17 | 20 | 25 | 30 |
| Power factor | | 1 | .0 | |
| Others | | | | |
| Ingress protection (IP) | IP65 | | | |
| Protective class | Class I | | | |
| Temperature ($^{\circ}$ C) | -25°C to +60°C (Derating 45°C) | | | |
| Inverter Isolation | Non-isolated (PV - AC - BAT) | | | |
| Overvoltage category | OVC III (AC Main), OVC II (PV) | | | |
| | V1.01 | | | |
| Firmware Version | | V1 | .01 | |

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