

Certificate of Conformity

Certificate Number: CN-PV-220213

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.

| | |
|---|---|
| Applicant: | Afore New Energy Technology (Shanghai)Co., Ltd. Build No.7, 333 Wanfang Road, Minhang District, Shanghai. China. 201112 |
| Product: | Hybrid Inverter |
| Ratings & Principle Characteristics: | See appendix of Certificate of Conformity |
| Model: | AF1K-SL-1, AF1.5K-SL-1, AF2K-SL-1, AF2.5K-SL-1, AF3K-SL-1, AF3.6K-SL-1, AF3K-SL, AF3.6K-SL, AF4K-SL, AF4.6K-SL, AF5K-SL, AF5.5K-SL, AF6K-SL |
| Brand Name<s>: | Afore |
| Product Complies with: | EN 50549-1:2019 Requirements for the connection of generation equipment in parallel with public distribution networks. |
| Certificate Issuing Office Name & Address: | Intertek Testing Services Ltd. Shanghai West Area, 2 nd 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 |
| Test Report No.<s>: | 220900591SHA-001 |

Additional information in Appendix.


Signature

Certification Manager: Qiao Qiao
Date: 29 September 2022



PRD N° 306B

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-220213

**Ratings &
Principle
Characteristics:**

| Specifications table | | | | | |
|--|-------------------------------|-------------|-----------|-------------|-----------|
| Model | AF1K-SL-1 | AF1.5K-SL-1 | AF2K-SL-1 | AF2.5K-SL-1 | AF3K-SL-1 |
| Input | | | | | |
| Ppv Max (W) | 1500 | 2300 | 3000 | 3800 | 4500 |
| Vmax PV (V) | 550 | 550 | 550 | 550 | 550 |
| Isc PV (absolute Max.) (A) | 26 | 26 | 26 | 26 | 26 |
| Number of MPP trackers | 1 | 1 | 1 | 1 | 1 |
| Number of input strings | 1 | 1 | 1 | 1 | 1 |
| Max. PV input range (A) | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 |
| MPPT Voltage Range (V) | 80-500 | 80-500 | 80-500 | 80-500 | 80-500 |
| Vdc range @ full power (V) | 80-500 | 90-500 | 120-500 | 150-500 | 170-500 |
| Battery (input and output) | | | | | |
| Battery type | Li-ion / lead acid etc. | | | | |
| Battery Nominal Voltage (V) | 51.2 | | | | |
| Battery Voltage Range (V) | 40-60 | | | | |
| Max. Charge/Discharge Current (A) | 25 | 40 | 50 | 63 | 80 |
| Max. Charge/Discharge Power (W) | 1000 | 1500 | 2000 | 2500 | 3000 |
| AC Grid (input and output) | | | | | |
| Nominal Voltage (V) | L/N/PE. 230Vac | | | | |
| Nominal Frequency (Hz) | 50 | | | | |
| Max. continuous Input/output Current (A) | 5 | 7 | 10 | 12 | 14 |
| Nominal Power (W) | 1000 | 1500 | 2000 | 2500 | 3000 |
| Max. Power (W) | 1000 | 1500 | 2000 | 2500 | 3000 |
| Max. apparent Power (VA) | 1000 | 1500 | 2000 | 2500 | 3000 |
| Power Factor | 1(-0.8~+0.8 adjustable) | | | | |
| AC Load output | | | | | |
| Nominal Output Voltage (V) | L/N/PE. 230Vac | | | | |
| Nominal Frequency (Hz) | 50 | | | | |
| Max. continuous Input/output Current (A) | 5 | 7 | 10 | 12 | 14 |
| Nominal Output Power(W) | 1000 | 1500 | 2000 | 2500 | 3000 |
| Max. Output Power (W) | 1000 | 1500 | 2000 | 2500 | 3000 |
| Max. apparent Power (VA) | 1000 | 1500 | 2000 | 2500 | 3000 |
| Power Factor | 1 | | | | |
| others | | | | | |
| Ingress protection (IP) | IP65 | | | | |
| Temperature (°C) | -25°C to +60°C (Derating45°C) | | | | |
| Inverter Isolation | Non-isolated | | | | |
| Firmware Version | V06 | | | | |

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| Specifications table | | | | | |
|--|-------------------------------|----------|-----------|----------|-----------|
| Model | AF3.6K-SL-1 | AF3K-SL | AF3.6K-SL | AF4K-SL | AF4.6K-SL |
| Input | | | | | |
| Ppv Max (W) | 5400 | 4500 | 5400 | 6000 | 6900 |
| Vmax PV (V) | 550 | 550 | 550 | 550 | 550 |
| Isc PV (absolute Max.) (A) | 26 | 26 x 2 | 26 x 2 | 26 x 2 | 26 x 2 |
| Number of MPP trackers | 1 | 2 | 2 | 2 | 2 |
| Number of input strings | 1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Max. PV input range (A) | 18.5 | 18.5 x 2 | 18.5 x 2 | 18.5 x 2 | 18.5 x 2 |
| MPPT Voltage Range (V) | 80-500 | 80-500 | 80-500 | 80-500 | 80-500 |
| Vdc range @ full power (V) | 210-500 | 90-500 | 110-500 | 120-500 | 130-500 |
| Battery (input and output) | | | | | |
| Battery type | Li-ion / lead acid etc. | | | | |
| Battery Nominal Voltage (V) | 51.2 | | | | |
| Battery Voltage Range (V) | 40-60 | | | | |
| Max. Charge/Discharge Current (A) | 80 | 80 | 80 | 80 | 80 |
| Max. Charge/Discharge Power (W) | 3600 | 3000 | 3600 | 4000 | 4600 |
| AC Grid (input and output) | | | | | |
| Nominal Voltage (V) | L/N/PE. 230Vac | | | | |
| Nominal Frequency (Hz) | 50 | | | | |
| Max. continuous Input/output Current (A) | 17 | 14 | 17 | 19 | 22 |
| Nominal Power (W) | 3600 | 3000 | 3600 | 4000 | 4600 |
| Max. Power (W) | 3600 | 3000 | 3600 | 4000 | 4600 |
| Max. apparent Power (VA) | 3600 | 3000 | 3600 | 4000 | 4600 |
| Power Factor | 1(-0.8~+0.8 adjustable) | | | | |
| AC Load output | | | | | |
| Nominal Output Voltage (V) | L/N/PE. 230Vac | | | | |
| Nominal Frequency (Hz) | 50 | | | | |
| Max. continuous Input/output Current (A) | 17 | 14 | 17 | 19 | 22 |
| Nominal Output Power(W) | 3600 | 3000 | 3600 | 4000 | 4600 |
| Max. Output Power (W) | 3600 | 3000 | 3600 | 4000 | 4600 |
| Max. apparent Power (VA) | 3600 | 3000 | 3600 | 4000 | 4600 |
| Power Factor | 1 | | | | |
| others | | | | | |
| Ingress protection (IP) | IP65 | | | | |
| Temperature (°C) | -25°C to +60°C (Derating45°C) | | | | |
| Inverter Isolation | Non-isolated | | | | |
| Firmware Version | V06 | | | | |

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| Specifications table | | | | | |
|--|-------------------------------|-----------|----------|--|--|
| Model | AF5K-SL | AF5.5K-SL | AF6K-SL | | |
| Input | | | | | |
| Ppv Max (W) | 7500 | 8300 | 9000 | | |
| Vmax PV (V) | 550 | 550 | 550 | | |
| Isc PV (absolute Max.) (A) | 26 x 2 | 26 x 2 | 26 x 2 | | |
| Number of MPP trackers | 2 | 2 | 2 | | |
| Number of input strings | 1/1 | 1/1 | 1/1 | | |
| Max. PV input range (A) | 18.5 x 2 | 18.5 x 2 | 18.5 x 2 | | |
| MPPT Voltage Range (V) | 80-500 | 80-500 | 80-500 | | |
| Vdc range @ full power (V) | 150-500 | 160-500 | 170-500 | | |
| Battery (input and output) | | | | | |
| Battery type | Li-ion / lead acid etc. | | | | |
| Battery Nominal Voltage (V) | 51.2 | | | | |
| Battery Voltage Range (V) | 40-60 | | | | |
| Max. Charge/Discharge Current (A) | 80 | 80 | 80 | | |
| Max. Charge/Discharge Power (W) | 4800 | 4800 | 4800 | | |
| AC Grid (input and output) | | | | | |
| Nominal Voltage (V) | L/N/PE. 230Vac | | | | |
| Nominal Frequency (Hz) | 50 | | | | |
| Max. continuous Input/output Current (A) | 23 | 26 | 28 | | |
| Nominal Power (W) | 5000 | 5500 | 6000 | | |
| Max. Power (W) | 5000 | 5500 | 6000 | | |
| Max. apparent Power (VA) | 5000 | 5500 | 6000 | | |
| Power Factor | 1(-0.8~+0.8 adjustable) | | | | |
| AC Load output | | | | | |
| Nominal Output Voltage (V) | L/N/PE. 230Vac | | | | |
| Nominal Frequency (Hz) | 50 | | | | |
| Max. continuous Input/output Current (A) | 23 | 26 | 28 | | |
| Nominal Output Power(W) | 5000 | 5500 | 6000 | | |
| Max. Output Power (W) | 5000 | 5500 | 6000 | | |
| Max. apparent Power (VA) | 5000 | 5500 | 6000 | | |
| Power Factor | 1 | | | | |
| others | | | | | |
| Ingress protection (IP) | IP65 | | | | |
| Temperature (°C) | -25°C to +60°C (Derating45°C) | | | | |
| Inverter Isolation | Non-isolated | | | | |
| Firmware Version | V06 | | | | |

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