

Certificate of Conformity

Certificate Number: CN-PVES-250429

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.
Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China. 201112

Product: Grid-interactive inverter

Ratings & Principal Characteristics: See appendix of Certificate of Conformity

Model: AF*-MTH (*=3K, 4K, 5K, 6K, 8K, 10K, 12K, 15K)
AF*-ATH (*=3K, 4K, 5K, 6K, 8K, 10K, 12K, 15K)
AF*-MTH-0 (*=3K, 4K, 5K, 6K, 8K, 10K, 12K, 15K)
AF*-ATH-0 (*=3K, 4K, 5K, 6K, 8K, 10K, 12K, 15K)
AF*-MTHA (*=3K, 4K, 5K, 6K, 7K), AF*-ATHA (*=3K, 4K, 5K, 6K, 7K)
AF*-MTHA-0 (*=3K, 4K, 5K, 6K, 7K), AF*-ATHA-0 (*=3K, 4K, 5K, 6K, 7K)

Brand Name<s>: Afore

Product Complies with: EN 50549-1:2019+A1:2023
conjunction with EN 50549-10:2022

Certificate Issuing Office Name & Address: Intertek Testing Services Ltd. Shanghai
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

Test Report No.<s>: 2504B0874SHA-001

Additional information in Appendix.

Signature



Certification Manager: Qiao Qiao

Date: 3 November 2025



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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250429

Ratings & Principal Characteristics:

Specifications table				
Model	AF3K-MTH	AF4K-MTH	AF5K-MTH	AF6K-MTH
	AF3K-ATH	AF4K-ATH	AF5K-ATH	AF6K-ATH
PV input				
P pv Max (kW)	6	8	10	12
Vmax PV (Vdc) (absolute Max.)	1000	1000	1000	1000
Isc PV (absolute Max.) (A)	25*2	25*2	25*2	25*2
Number MPP trackers	2	2	2	2
Number input strings	1/1	1/1	1/1	1/1
Max. PV input current (A)	18.5*2	18.5*2	18.5*2	18.5*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/Lead-acid etc.			
Battery Normal Voltage Range (Vdc)	80-600(Field adapt battery voltage range)			
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)	50 / 60			
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 / 60			
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
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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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250429

Specifications table				
Model	AF8K-MTH	AF10K-MTH	AF12K-MTH	AF15K-MTH
	AF8K-ATH	AF10K-ATH	AF12K-ATH	AF15K-ATH
PV input				
P pv Max (kW)	16	20	24	30
Vmax PV (Vdc) (absolute Max.)	1000	1000	1000	1000
Isc PV (absolute Max.) (A)	25*2	25*2	25*2	25*2
Number MPP trackers	2	2	2	2
Number input strings	1/1	1/1	1/1	1/1
Max. PV input current (A)	18.5*2	18.5*2	18.5*2	18.5*2
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/Lead-acid etc.			
Battery Normal Voltage Range (Vdc)	80-600(Field adapt battery voltage range)			
Max charge/discharge Current(A)	30	30	30	30
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)	50 / 60			
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 / 60			
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
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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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250429

Specifications table				
Model	AF3K-MTH-0	AF4K-MTH-0	AF5K-MTH-0	AF6K-MTH-0
	AF3K-ATH-0	AF4K-ATH-0	AF5K-ATH-0	AF6K-ATH-0
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid etc.			
Battery Normal Voltage Range (Vdc)	80-800(Field adapt battery voltage range)			
Max charge/discharge Current(A)	30*2	30*2	30*2	30*2
Max charge/discharge Power(kW)	3 / 3.3	4 / 4.4	5 / 5.5	6 / 6.6
AC Grid (input and output)				
Normal AC Voltage (Vac)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50 / 60			
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 / 60			
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
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)			

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Specifications table				
Model	AF8K-MTH-0	AF10K-MTH-0	AF12K-MTH-0	AF15K-MTH-0
	AF8K-ATH-0	AF10K-ATH-0	AF12K-ATH-0	AF15K-ATH-0
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid etc.			
Battery Normal Voltage Range (Vdc)	80-800(Field adapt battery voltage range)			
Max charge/discharge Current(A)	30*2	30*2	30*2	30*2
Max charge/discharge Power(kW)	8 / 8.8	10 / 11	12/13.2	15 / 16.5
AC Grid (input and output)				
Normal AC Voltage (Vac)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50 / 60			
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 / 60			
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
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)			

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Specifications table					
Model	AF3K-MTHA	AF4K-MTHA	AF5K-MTHA	AF6K-MTHA	AF7K-MTHA
	AF3K-ATHA	AF4K-ATHA	AF5K-ATHA	AF6K-ATHA	AF7K-ATHA
PV input					
P pv Max (kW)	6	8	10	12	14
Vmax PV (Vdc) (absolute Max.)	600	600	600	600	600
Isc PV (absolute Max.) (A)	25*2	25*2	25*2	25*2	25*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 (A)	18.5*2	18.5*2	18.5*2	18.5*2	18.5*2
MPPT voltage range (Vdc)	100-550	100-550	100-550	100-550	100-550
Vdc range @ full power (Vdc)	120-550	150-550	200-550	250-550	300-550
Battery (charge/discharge)					
Battery type	Li-ion/Lead-acid etc.				
Battery Normal Voltage Range (Vdc)	80-450(Field adapt battery voltage range)				
Max charge/discharge Current(A)	30	30	30	30	30
Max charge/discharge Power(kW)	3	4	5	6	7
AC Grid (input and output)					
Normal AC Voltage (VAC)	3P+PE/3P 133/230				
Frequency (Hz)	50 / 60				
Normal AC Current (A)	7.6	10.1	12.6	15.1	17.6
Max. cont. input/output current (A)	16 / 10.5	20 / 13.5	26 / 17	32 / 21.5	32 / 25
Rated Power (kW)	3	4	5	6	7
Rated Apparent Power (kVA)	3	4	5	6	7
Max. cont. input/output Power (kW)	4.5 / 3.3	6 / 4.4	7.5 / 5.5	9 / 6.6	10.5 / 7.7
Max. cont. Apparent input/output Power (kVA)	4.5 / 3.3	6 / 4.4	7.5 / 5.5	9 / 6.6	10.5 / 7.7
Power factor(adjustable)	1.0(-0.8~ +0.8)				
AC Load output (stand-alone)					
Normal Voltage (VAC)	3P+PE/3P 133/230				
Frequency (Hz)	50 / 60				
Nominal Current (A)	7.6	10.1	12.6	15.1	17.6
Max. cont. current (A)	10.5	13.5	17	21.5	25
Max. cont. Power (kW)	3	4	5	6	7
Rated Apparent Power (kVA)	3	4	5	6	7
Max. cont. Apparent Power (kVA)	3	4	5	6	7
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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Specifications table					
Model	AF3K-MTHA-0	AF4K-MTHA-0	AF5K-MTHA-0	AF6K-MTHA-0	AF7K-MTHA-0
	AF3K-ATHA-0	AF4K-ATHA-0	AF5K-ATHA-0	AF6K-ATHA-0	AF7K-ATHA-0
Battery (charge/discharge)					
Battery type	Li-ion/Lead-acid etc.				
Battery Normal Voltage Range (Vdc)	80-450(Field adapt battery voltage range)				
Max charge/discharge Current(A)	30*2	30*2	30*2	30*2	30*2
Max charge/discharge Power(kW)	3 / 3.3	4 / 4.4	5 / 5.5	6 / 6.6	7 / 7.7
AC Grid (input and output)					
Normal AC Voltage (VAC)	3P+PE/3P 133/230				
Frequency (Hz)	50 / 60				
Normal AC Current (A)	7.6	10.1	12.6	15.1	17.6
Max. cont. input/output current (A)	16 / 10.5	20 / 13.5	26 / 17	32 / 21.5	32 / 25
Rated Power (kW)	3	4	5	6	7
Rated Apparent Power (kVA)	3	4	5	6	7
Max. cont. input/output Power (kW)	4.5 / 3.3	6 / 4.4	7.5 / 5.5	9 / 6.6	10.5 / 7.7
Max. cont. Apparent input/output Power (kVA)	4.5 / 3.3	6 / 4.4	7.5 / 5.5	9 / 6.6	10.5 / 7.7
Power factor(adjustable)	1.0(-0.8~ +0.8)				
AC Load output (stand-alone)					
Normal Voltage (VAC)	3P+PE/3P 133/230				
Frequency (Hz)	50 / 60				
Nominal Current (A)	7.6	10.1	12.6	15.1	17.6
Max. cont. current (A)	10.5	13.5	17	21.5	25
Max. cont. Power (kW)	3	4	5	6	7
Rated Apparent Power (kVA)	3	4	5	6	7
Max. cont. Apparent Power (kVA)	3	4	5	6	7
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)				
Firmware Version	1.01				
Software Version	V02				

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