

Test Verification of Conformity

Verification Number: 2604B1654SHA-V1

On the basis of the tests undertaken, the sample<s> of the below product has been tested by an a 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:	Grid-interactive inverter
Ratings & Principal Characteristics:	See Appendix(Specifications table)
Models/Type References:	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 Names:	Afore
Specification<s>/Standards:	IEC 61683:1999 (First Edition)
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:	2026-04-16 to 2026-05-25
Test Report Number(s):	2604B1654SHA-001
Additional information in Appendix.	

Signature



Name: Max Jin

Position: General Manager

Date: 2026-06-01

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2604B1654SHA-V1

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
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			
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
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)			
Firmware Version	1.01			

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APPENDIX: Test Verification of Conformity

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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
V _{max} PV (Vdc) (absolute Max.)	1000	1000	1000	1000
I _{sc} 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
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			
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
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)			
Firmware Version	1.01			

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2604B1654SHA-V1

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			
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
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			

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2604B1654SHA-V1

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			
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
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			

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APPENDIX: Test Verification of Conformity

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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
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				
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				
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)				
Firmware Version	1.01				

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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				
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				
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				

Signature



Name: Max Jin

Position: General Manager

Date: 2026-06-01

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