

Certificate of Conformity

Certificate Number: CN-PV-230313

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:	AF3K-TH, AF4K-TH, AF5K-TH, AF6K-TH, AF8K-TH, AF10K-TH, AF3K-THP, AF4K-THP, AF5K-THP, AF6K-THP, AF8K-THP, AF10K-THP
Brand Name<s>:	Afore
Product Complies with:	G98 Issue 1 Amendment 7, 3 October 2022 Requirements for the connection of Fully Type Tested Micro-generators (up to and including 16 A per phase) in parallel with public Low Voltage 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>:	230501661SHA-001

Additional information in Appendix.

Signature



Certification Manager: Qiao Qiao

Date: 07 June 2023



PRD N° 306B

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230313

Ratings & Principle Characteristics:

Specifications table				
Model	AF3K-TH	AF4K-TH	AF5K-TH	AF6K-TH
PV input				
P _{pv} Max(kW)	5	6	7.5	9
V _{max} PV (Vdc) (absolute Max.)	1000	1000	1000	1000
I _{sc} 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/Lead-acid			
Battery Normal Voltage Range (Vdc)	150-800(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
Power factor	1.0			
Others				
Ingress protection (IP)	IP65			
Protective class	Class I			
Temperature (°C)	-25°C to +60°C			
Inverter Isolation	Non-isolated (PV - AC - BAT)			
Overvoltage category	OVC III (AC Main), OVC II (PV)			
Firmware Version	V1.01			

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230313

Ratings & Principle Characteristics:

Specifications table		
Model	AF8K-TH	AF10K-TH
PV input		
P _{pv} Max(kW)	12	15
V _{max} PV (Vdc) (absolute Max.)	1000	1000
I _{sc} PV (absolute Max.) (A)	30*2	30*2
Number MPP trackers	2	2
Number input strings	1/1	1/1
Max. PV input current (A)	20*2	20*2
MPPT voltage range (Vdc)	150-850	150-850
Vdc range @ full power (Vdc)	300-850	500-850
Battery (charge/discharge)		
Battery type	Li-ion/Lead-acid	
Battery Normal Voltage Range (Vdc)	150-800(Field adapt battery voltage range)	
Max charge/discharge Current(A)	30	30
Max charge/discharge Power(kW)	8	10
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
Max. cont. input/output current (A)	20 / 13.5	26 / 17
Rated Power (kW)	8	10
Rated Apparent Power (kVA)	8	10
Max. cont. input/output Power (kW)	12 / 8.8	15 / 11
Max. cont. Apparent input/output Power (kVA)	12 / 8.8	15 / 11
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
Max. cont. current (A)	13.5	17
Max. cont. Power (kW)	8	10
Rated Apparent Power (kVA)	8	10
Max. cont. Apparent Power (kVA)	8	10
Power factor	1.0	
Others		
Ingress protection (IP)	IP65	
Protective class	Class I	
Temperature (°C)	-25°C to +60°C	
Inverter Isolation	Non-isolated (PV - AC - BAT)	
Overvoltage category	OVC III (AC Main), OVC II (PV)	
Firmware Version	V1.01	

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APPENDIX: Certificate of Conformity

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Ratings & Principle Characteristics:

Specifications table				
Model	AF3K-THP	AF4K-THP	AF5K-THP	AF6K-THP
PV input				
P _{pv} Max(kW)	5	6	7.5	9
V _{max} PV (Vdc) (absolute Max.)	1000	1000	1000	1000
I _{sc} 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/Lead-acid			
Battery Normal Voltage Range (Vdc)	80-600(Field adapt battery voltage range)			
Max charge/discharge Current(A)	50	50	50	50
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
Power factor	1.0			
Others				
Ingress protection (IP)	IP65			
Protective class	Class I			
Temperature (°C)	-25°C to +60°C			
Inverter Isolation	Non-isolated (PV - AC - BAT)			
Overvoltage category	OVC III (AC Main), OVC II (PV)			
Firmware Version	V1.01			

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Ratings & Principle Characteristics:

Specifications table		
Model	AF8K-THP	AF10K-THP
PV input		
P _{pv} Max(kW)	12	15
V _{max} PV (Vdc) (absolute Max.)	1000	1000
I _{sc} PV (absolute Max.) (A)	30*2	30*2
Number MPP trackers	2	2
Number input strings	1/1	1/1
Max. PV input current (A)	20*2	20*2
MPPT voltage range (Vdc)	150-850	150-850
Vdc range @ full power (Vdc)	300-850	500-850
Battery (charge/discharge)		
Battery type	Li-ion/Lead-acid	
Battery Normal Voltage Range (Vdc)	80-600 (Field adapt battery voltage range)	120-650 (Field adapt battery voltage range)
Max charge/discharge Current(A)	50	50
Max charge/discharge Power(kW)	8	10
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
Max. cont. input/output current (A)	20 / 13.5	26 / 17
Rated Power (kW)	8	10
Rated Apparent Power (kVA)	8	10
Max. cont. input/output Power (kW)	12 / 8.8	15 / 11
Max. cont. Apparent input/output Power (kVA)	12 / 8.8	15 / 11
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
Max. cont. current (A)	13.5	17
Max. cont. Power (kW)	8	10
Rated Apparent Power (kVA)	8	10
Max. cont. Apparent Power (kVA)	8	10
Power factor	1.0	
Others		
Ingress protection (IP)	IP65	
Protective class	Class I	
Temperature (°C)	-25°C to +60°C	
Inverter Isolation	Non-isolated (PV - AC - BAT)	
Overtoltage category	OVC III (AC Main), OVC II (PV)	
Firmware Version	V1.01	

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