

Certificate of Conformity

Certificate Number: CN-PV-230047

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, AF12K-TH, AF15K-TH, AF17K-TH, AF20K-TH, AF25K-TH, AF30K-TH
Brand Name<s>:	Afore
Product Complies with:	C10/11: ed.2.2, 15 Mar 2021
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>:	230200243SHA-002

Additional information in Appendix.



Signature

Certification Manager: Qiao Qiao

Date: 10 February 2023



PRD N° 306B

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230047

**Ratings &
Principle
Characteristics:**

Specifications table					
Model	AF3K-TH	AF4K-TH	AF5K-TH	AF6K-TH	AF8K-TH
Input					
Ppv Max (kW)	5	6	7.5	9	12
Vmax PV (V)	1000	1000	1000	1000	1000
Isc PV (absolute Max.) (A)	30*2	30*2	30*2	30*2	30*2
Number of MPP trackers	2	2	2	2	2
Number of input strings	1/1	1/1	1/1	1/1	1/1
Max. PV input range (A)	20*2	20*2	20*2	20*2	20*2
MPPT Voltage Range (V)	150-850	150-850	150-850	150-850	150-850
Battery (input and output)					
Battery type	Li-ion / lead acid etc.				
Battery Voltage Range (V)	150-800 (Field adapt battery voltage range)				
Max. Charge/Discharge Current (A)	30	30	30	30	30
Max. Charge/Discharge Power (kW)	3	4	5	6	8
AC Grid (input and output)					
Nominal Voltage (V)	3P+N+PE/3P+PE 230/400				
Nominal Frequency (Hz)	50				
Max. continuous Input/output Current (A)	8 / 5.3	10.5 / 7	13 / 8.5	16 / 10.5	20 / 13.5
Nominal Power (kW)	3	4	5	6	8
Max. Power (kW)	4.5 / 3.3	6 / 4.4	7.5 / 5.5	9 / 6.6	12 / 8.8
Max. apparent Power (kVA)	4.5 / 3.3	6 / 4.4	7.5 / 5.5	9 / 6.6	12 / 8.8
Power Factor	1(-0.8~+0.8 adjustable)				
AC Load output					
Nominal Output Voltage (V)	3P+N+PE/3P+PE 230/400				
Nominal Frequency (Hz)	50				
Max. continuous Input/output Current (A)	5.3	7	8.5	10.5	13.5
Nominal Output Power(kW)	3	4	5	6	8
Max. Output Power (kW)	3	4	5	6	8
Max. apparent Power (kVA)	3	4	5	6	8
Power Factor	1				
others					

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Ingress protection (IP)	IP65
Temperature (°C)	-25°C to +60°C (Derating45°C)
Inverter Isolation	Non-isolated
Firmware Version	1.01

Specifications table					
Model	AF10K-TH	AF12K-TH	AF15K-TH	AF17K-TH	AF20K-TH
Input					
Ppv Max (W)	15	18	22.5	25.5	30
Vmax PV (V)	1000	1000	1000	1000	1000
Isc PV (absolute Max.) (A)	30*2	30*2	30+48	48*2	48*2
Number of MPP trackers	2	2	2	2	2
Number of input strings	1/1	1/1	1/2	2/2	2/2
Max. PV input range (A)	20*2	20*2	20+32	32*2	32*2
MPPT Voltage Range (V)	150-850	150-850	150-850	150-850	150-850
Vdc range @ full power (V)	500-850	500-850	500-850	500-850	500-850
Battery (input and output)					
Battery type	Li-ion / lead acid etc.				
Battery Voltage Range (V)	150-800 (Field adapt battery voltage range)				
Max. Charge/Discharge Current (A)	30	30	50	50	50
Max. Charge/Discharge Power (W)	10	12	15	17	20
AC Grid (input and output)					
Nominal Voltage (V)	3P+N+PE/3P+PE 230/400				
Nominal Frequency (Hz)	50				
Max. continuous Input/output Current (A)	26 / 17	32 / 21.5	40.5 / 27	45 / 30	48 / 32
Nominal Power (kW)	10	12	15	17	20
Max. Power (kW)	15 / 11	18 / 13.2	22.5 / 16.5	25.5 / 18.7	30 / 22
Max. apparent Power (kVA)	15 / 11	18 / 13.2	22.5 / 16.5	25.5 / 18.7	30 / 22
Power Factor	1(-0.8~+0.8 adjustable)				
AC Load output					
Nominal Output Voltage (V)	3P+N+PE/3P+PE 230/400				
Nominal Frequency (Hz)	50				
Max. continuous Input/output Current (A)	17	21.5	27	30	32
Nominal Output Power(kW)	10	12	15	17	20
Max. Output Power (kW)	10	12	15	17	20
Max. apparent Power (kVA)	10	12	15	17	20
Power Factor	1				
others					

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Ingress protection (IP)	IP65
Temperature (°C)	-25°C to +60°C (Derating 45°C)
Inverter Isolation	Non-isolated
Firmware Version	1.01

Specifications table					
Model	AF25K-TH	AF30K-TH			
Input					
Ppv Max (W)	37.5	45			
Vmax PV (V)	1000	1000			
Isc PV (absolute Max.) (A)	60*2	60*2			
Number of MPP trackers	2	2			
Number of input strings	2/2	2/2			
Max. PV input range (A)	40*2	40*2			
MPPT Voltage Range (V)	150-850	150-850			
Vdc range @ full power (V)	500-850	500-850			
Battery (input and output)					
Battery type	Li-ion / lead acid etc.				
Battery Voltage Range (V)	150-800 (Field adapt battery voltage range)				
Max. Charge/Discharge Current (A)	60	60			
Max. Charge/Discharge Power (W)	25	30			
AC Grid (input and output)					
Nominal Voltage (V)	3P+N+PE/3P+PE 230/400				
Nominal Frequency (Hz)	50				
Max. continuous Input/output Current (A)	60 / 40	72 / 48			
Nominal Power (kW)	25	30			
Max. Power (kW)	37.5 / 27.5	45 / 33			
Max. apparent Power (kVA)	37.5 / 27.5	45 / 33			
Power Factor	1(-0.8~+0.8 adjustable)				
AC Load output					
Nominal Output Voltage (V)	3P+N+PE/3P+PE 230/400				
Nominal Frequency (Hz)	50				
Max. continuous Input/output Current (A)	40	48			
Nominal Output Power(kW)	25	30			
Max. Output Power (kW)	25	30			
Max. apparent Power (kVA)	25	30			
Power Factor	1				
others					

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Ingress protection (IP)	IP65
Temperature (°C)	-25°C to +60°C (Derating45°C)
Inverter Isolation	Non-isolated
Firmware Version	1.01



This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.