

Certificate of Conformity

Certificate Number: CN-PVES-250368

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 & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	AF*-TH (*=36K, 40K, 45K, 50K, 60K) AF*-THA (*=20K, 25K, 30K, 36K) AF*-TH-0 (*=36K, 40K, 45K, 50K, 60K) AF*-THA-0 (*=20K, 25K, 30K, 36K)
Brand Name<s>:	Afore
Product Complies with:	IEC 61727:2004 IEC 62116:2014
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>:	2505B1123SHA-001

Additional information in Appendix.



Signature

Certification Manager: Qiao Qiao

Date: 17 September 2025



01886

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.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250368

Ratings & Principle Characteristics:

Specifications table					
Model	AF36K-TH	AF40K-TH	AF45K-TH	AF50K-TH	AF60K-TH
PV input					
P _{pv} Max (kW)	72	80	90	100	100
V _{max} PV (Vdc) (absolute Max.)	1000				
I _{sc} PV (absolute Max.) (A)	48*4				
Number MPP trackers	4				
Number input strings	2/2/2/2				
Max. PV input current (A)	40*4				
MPPT voltage range (Vdc)	150-850				
Vdc range @ full power (Vdc)	500-850				
Battery (charge/discharge)					
Battery type	Li-ion/Lead-acid etc.				
Battery Normal Voltage Range (Vdc)	150-800 (Field adapt battery voltage range)				
Max charge/discharge Current(A)	120				
Max charge/discharge Power(kW)	36	40	45	50	60
AC Grid (input and output)					
Normal AC Voltage (Vac)	3P+N+PE/3P+PE 230/400				
Frequency (Hz)	50				
Normal AC Current (A)	52.2	58	65.3	72.5	87
Max. cont. input/output current (A)	81.9 / 60.5	91.1 / 67	102.3 / 75.5	113.7 / 83.5	136.5 / 96
Rated Power (kW)	36	40	45	50	60
Rated Apparent Power (kVA)	36	40	45	50	60
Max. cont. input/output Power (kW)	54 / 39.6	60 / 44	67.5 / 49.5	75 / 55	90 / 66
Max. cont. Apparent input/output Power (kVA)	54 / 39.6	60 / 44	67.5 / 49.5	75 / 55	90 / 66
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)	52.2	58	65.3	72.5	87
Max. cont. current (A)	60.5	67	75.5	83.5	96
Rated Apparent Power (kVA)	36	40	45	50	60
Max. cont. Power (kW)	36	40	45	50	60
Max. cont. Apparent Power (kVA)	36	40	45	50	60
Power factor	1.0				
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	1.03				

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.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250368

Specifications table				
Model	AF20K-THA	AF25K-THA	AF30K-THA	AF36K-THA
PV input				
P _{pv} Max (kW)	40	50	60	72
V _{max} PV (Vdc) (absolute Max.)	1000			
I _{sc} PV (absolute Max.) (A)	48*4			
Number MPP trackers	4			
Number input strings	2/2/2/2			
Max. PV input current (A)	40*4			
MPPT voltage range (Vdc)	150-850			
Vdc range @ full power (Vdc)	200-850	200-850	200-850	240-850
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid etc.			
Battery Normal Voltage Range (Vdc)	150-800 (Field adapt battery voltage range)			
Max charge/discharge Current(A)	120			
Max charge/discharge Power(kW)	20	25	30	36
AC Grid (input and output)				
Normal AC Voltage (VAC)	3P+PE/3P 133/230			
Frequency (Hz)	50			
Normal AC Current (A)	50.2	62.7	75.2	90.3
Max. cont. input/output current (A)	78.8 / 58	98.6 / 72.5	118.2 / 87	133.9 / 96
Rated Power (kW)	20	25	30	36
Rated Apparent Power (kVA)	20	25	30	36
Max. cont. input/output Power (kW)	30 / 22	37.5 / 27.5	45 / 33	51 / 36
Max. cont. Apparent input/output Power (kVA)	30 / 22	37.5 / 27.5	45 / 33	51 / 36
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)	50.2	62.7	75.2	90.3
Max. cont. current (A)	58	72.5	87	96
Max. cont. Power (kW)	20	25	30	36
Rated Apparent Power (kVA)	20	25	30	36
Max. cont. Apparent Power (kVA)	20	25	30	36
Power factor	1.0			
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	1.03			

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.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250368

Specifications table					
Model	AF36K-TH-0	AF40K-TH-0	AF45K-TH-0	AF50K-TH-0	AF60K-TH-0
Battery (charge/discharge)					
Battery type	Li-ion/Lead-acid etc.				
Battery Normal Voltage Range (Vdc)	150-800 (Field adapt battery voltage range)				
Max charge/discharge Current(A)	120				
Max charge/discharge Power(kW)	36 / 39.6	40 / 44	45 / 49.5	50 / 55	60 / 66
AC Grid (input and output)					
Normal AC Voltage (Vac)	3P+N+PE/3P+PE 230/400				
Frequency (Hz)	50				
Normal AC Current (A)	52.2	58	65.3	72.5	87
Max. cont. input/output current (A)	81.9 / 60.5	91.1 / 67	102.3 / 75.5	113.7 / 83.5	136.5 / 96
Rated Power (kW)	36	40	45	50	60
Rated Apparent Power (kVA)	36	40	45	50	60
Max. cont. input/output Power (kW)	54 / 36	60 / 40	67.5 / 45	75 / 50	90 / 60
Max. cont. Apparent input/output Power (kVA)	54 / 36	60 / 40	67.5 / 45	75 / 50	90 / 60
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)	52.2	58	65.3	72.5	87
Max. cont. current (A)	60.5	67	75.5	83.5	96
Rated Apparent Power (kVA)	36	40	45	50	60
Max. cont. Power (kW)	36	40	45	50	60
Max. cont. Apparent Power (kVA)	36	40	45	50	60
Power factor	1.0				
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	1.03				

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.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250368

Specifications table				
Model	AF20K-THA-0	AF25K-THA-0	AF30K-THA-0	AF36K-THA-0
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid etc.			
Battery Normal Voltage Range (Vdc)	150-800 (Field adapt battery voltage range)			
Max charge/discharge Current(A)	120			
Max charge/discharge Power(kW)	20 / 22	25 / 27.5	30 / 33	36 / 39.6
AC Grid (input and output)				
Normal AC Voltage (VAC)	3P+PE/3P 133/230			
Frequency (Hz)	50 / 60			
Normal AC Current (A)	50.2	62.7	75.2	90.3
Max. cont. input/output current (A)	78.8 / 58	98.6 / 72.5	118.2 / 87	133.9 / 96
Rated Power (kW)	20	25	30	36
Rated Apparent Power (kVA)	20	25	30	36
Max. cont. input/output Power (kW)	30 / 20	37.5 / 25	45 / 30	51 / 36
Max. cont. Apparent input/output Power (kVA)	30 / 20	37.5 / 25	45 / 30	51 / 36
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)	50.2	62.7	75.2	90.3
Max. cont. current (A)	58	72.5	87	96
Max. cont. Power (kW)	20	25	30	36
Rated Apparent Power (kVA)	20	25	30	36
Max. cont. Apparent Power (kVA)	20	25	30	36
Power factor	1.0			
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	1.03			

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.