

Certificate of Conformity

Certificate Number: CN-PVES-250443

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*-TH-0 (*=36K, 40K, 45K, 50K, 60K) AF*-THA (*=19.99K, 20K, 24.99K, 25K, 29.99K, 30K, 36K) AF*-THA-0 (*=20K, 25K, 30K, 36K)
Brand Name<s>:	Afore
Product Complies with:	C10/11:2024
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>:	2504B0883SHA-001

Additional information in Appendix.

Signature

Certification Manager: Qiao Qiao
Date: 14 November 2025



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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250443

Specifications table					
Model	AF36K-TH	AF40K-TH	AF45K-TH	AF50K-TH	AF60K-TH
PV input					
P pv Max (kW)	72	80	90	100	100
Vmax PV (Vdc) (absolute Max.)	1000				
Isc 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 / 60				
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 / 60				
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				

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APPENDIX: Certificate of Conformity

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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 / 60				
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 / 60				
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				

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APPENDIX: Certificate of Conformity

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Specifications table				
Model	AF19.99K-THA	AF20K-THA	AF24.99K-THA	AF25K-THA
PV input				
P pv Max (kW)	40	40	50	50
Vmax PV (Vdc) (absolute Max.)	1000			
Isc 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			
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)	19.99	20	24.99	25
AC Grid (input and output)				
Normal AC Voltage (Vac)	3P+PE/3P 133/230			
Frequency (Hz)	50 / 60			
Normal AC Current (A)	50.2	50.2	62.7	62.7
Max. cont. input/output current (A)	78.8 / 58	78.8 / 58	98.6 / 72.5	98.6 / 72.5
Rated Power (kW)	19.99	20	24.99	25
Rated Apparent Power (kVA)	19.99	20	24.99	25
Max. cont. input/output Power (kW)	30 / 19.99	30 / 22	37.5 / 24.99	37.5 / 27.5
Max. cont. Apparent input/output Power (kVA)	30 / 19.99	30 / 22	37.5 / 24.99	37.5 / 27.5
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	50.2	62.7	62.7
Max. cont. current (A)	58	58	72.5	72.5
Rated Apparent Power (kVA)	19.99	20	24.99	25
Max. cont. Power (kW)	19.99	20	24.99	25
Max. cont. Apparent Power (kVA)	19.99	20	24.99	25
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			

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Specifications table			
Model	AF29.99K-THA	AF30K-THA	AF36K-THA
PV input			
P pv Max (kW)	60	60	72
Vmax PV (Vdc) (absolute Max.)	1000		
Isc 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	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)	29.99	30	36
AC Grid (input and output)			
Normal AC Voltage (Vac)	3P+PE/3P 133/230		
Frequency (Hz)	50 / 60		
Normal AC Current (A)	75.2	75.2	90.3
Max. cont. input/output current (A)	118.2 / 87	118.2 / 87	133.9 / 96
Rated Power (kW)	29.99	30	36
Rated Apparent Power (kVA)	29.99	30	36
Max. cont. input/output Power (kW)	45 / 29.99	45 / 33	51 / 36
Max. cont. Apparent input/output Power (kVA)	45 / 29.99	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 / 60		
Nominal Current (A)	75.2	75.2	90.3
Max. cont. current (A)	87	87	96
Rated Apparent Power (kVA)	29.99	30	36
Max. cont. Power (kW)	29.99	30	36
Max. cont. Apparent Power (kVA)	29.99	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		

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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)			
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