

Certificate of Conformity

Certificate Number: CN-PVES-250200

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
Manufacturer:	Afore New Energy Technology (Shanghai) Co., Ltd. Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China. 201112
Factory:	Afore New Energy Technology (Shanghai) Co., Ltd. Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China. 201112
Product:	PV Hybrid inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	AF*-MTH (*=3K, 4K, 5K, 6K, 8K, 10K, 12K, 15K) AF*-MTHA (*=3K, 4K, 5K, 6K, 7K) AF*-ATH (*=3K, 4K, 5K, 6K, 8K, 10K, 12K, 15K) AF*-ATHA (*=3K, 4K, 5K, 6K, 7K)
Brand Name<s>:	
Product Complies with:	Commission Regulation (EU) 2016/631 of 14 April 2016 (NC RfG) establishing a network code on the requirements for connecting generating units to the network (Journal of Laws UE L 112/1 of 27 April 2016); PSE:18 December 2018: General Application Requirements resulting from the Regulation of the EU Commission 2016/631 of April 14, 2016 establishing the network code on the requirements for connecting generating units to the grid - approved by the Decision of the President of the Energy Regulatory Office DRE.WOSE.7128.550. 2. 2018. ZJ of January 2, 2019; PTPIREE, 2021-04: Conditions and procedures for the use of certificates in the process of connecting power generation modules to power grids. Type approval for Type A PPMs Type 1a product certification scheme according to ISO/IEC 17067:2013 Certification procedure SMS-PV-OP-19
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai West Area, 2 nd Floor, No. 707, Zhongyang 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>:	2504B0769SHA-001

Additional information in Appendix.

Signature



Certification Manager: Grady Ye

Issue Date: 07 May 2025

Valid Until: 06 May 2028



PRD N° 306B

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-250200

The following functionalities have been assessed based on the rules for the use of certificate for Power Park Modules (PPMs), as specified in chapter 7 and 9 of the PTPIREE 2021-04. The functions denoted "Not Applicable" in the table of chapter 7 has not been included.

Parameter	NC RfG	PSE 2018-12	Type A	Assessment result
Frequency range	13.1(a)	13.1(a)(i)	x	Compliant
Rate of Change of Frequency (ROCOF) Withstand capability, df/dt	13.1(b)	13.1(b)	x	Compliant
Remote cessation of active power	13.6	13.6	x	Compliant
Limited Frequency Sensitive Mode – Over frequency (LFSM-O)	13.2	13.2(a).(b).(f)	x	Compliant

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250200

Ratings & Principle Characteristics:

Model	AF3K-MTH	AF4K-MTH	AF5K-MTH	AF6K-MTH
	AF3K-ATH	AF4K-ATH	AF5K-ATH	AF6K-ATH
Input (PV)				
Max. input voltage	1000 VDC			
MPPT voltage range	150~850 VDC			
Max. input current per MPPT	18.5A			
Max. short-circuit current per MPPT	25A			
Number of MPP trackers	2			
Max. input number per MPP tracker	1			
Input (DC Battery)				
Operating voltage range	80~600 VDC			
Battery maximum continuous current	30A			
Output (On Grid)				
Rated output power	3000W	4000W	5000W	6000W
Max. apparent power	3300VA	4400VA	5500VA	6600VA
Max. output current	5.3A	7.0A	8.5A	10.5A
Rated output voltage	3P+N+PE/3P+PE 230/400			
Rated AC grid frequency	50Hz			
Adjustable power factor	0.8 leading~ 0.8 lagging			
General Data				
Operating temperature range	-25 ~ + 60 °C			
Degree of protection	IP66			
FW Version	1.03			

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APPENDIX: Certificate of Conformity

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Ratings & Principle Characteristics:

Model	AF8K-MTH	AF10K-MTH	AF12K-MTH	AF15K-MTH
	AF8K-ATH	AF10K-ATH	AF12K-ATH	AF15K-ATH
Input (PV)				
Max. input voltage	1000 VDC			
MPPT voltage range	150~850 VDC			
Max. input current per MPPT	18.5A			
Max. short-circuit current per MPPT	25A			
Number of MPP trackers	2			
Max. input number per MPP tracker	1			
Input (DC Battery)				
Operating voltage range	80~600 VDC			
Battery maximum continuous current	30A			
Output (On Grid)				
Rated output power	8000W	10000W	12000W	15000W
Max. apparent power	8800VA	11000VA	13200VA	16500VA
Max. output current	13.5A	17.0A	21.5A	27.0A
Rated output voltage	3P+N+PE/3P+PE 230/400			
Rated AC grid frequency	50Hz			
Adjustable power factor	0.8 leading~ 0.8 lagging			
General Data				
Operating temperature range	-25 ~ + 60 °C			
Degree of protection	IP66			
FW Version	1.03			

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Ratings & Principle Characteristics:

Model	AF3K-MTHA	AF4K-MTHA	AF5K-MTHA	AF6K-MTHA	AF7K-MTHA
	AF3K-ATHA	AF4K-ATHA	AF5K-ATHA	AF6K-ATHA	AF7K-ATHA
Input (PV)					
Max. input voltage	600 VDC				
MPPT voltage range	100~550 VDC				
Max. input current per MPPT	18.5A				
Max. short-circuit current per MPPT	25A				
Number of MPP trackers	2				
Max. input number per MPP tracker	1				
Input (DC Battery)					
Operating voltage range	80~450 VDC				
Battery maximum continuous current	30A				
Output (On Grid)					
Rated output power	3000W	4000W	5000W	6000W	7000W
Max. apparent power	3300W	4400W	5500W	6600W	7700W
Max. output current	10.5A	13.5A	17.0A	21.5A	25A
Rated output voltage	3P+PE/3P 133/230				
Rated AC grid frequency	50Hz				
Adjustable power factor	0.8 leading~ 0.8 lagging				
General Data					
Operating temperature range	-25 ~ + 60 °C				
Degree of protection	IP66				
FW Version	1.03				

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