

Certificate of Conformity

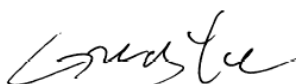
Certificate Number: CN-PVES-250245

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 inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	BNT*KTL (*=070, 075, 080, 090, 100, 110), BNT*KTA (*=040, 050, 060)
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 and B 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, 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>:	2504B0766SHA-001

Additional information in Appendix.

Signature



Certification Manager: Grady Ye

Issue Date: 2025-06-19

Valid Until: 2028-06-18



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-250245

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.

Capability	NC RfG	PSE 2018-12	Type A	Type B	Assessment result
Frequency range	13.1(a)	13.1(a)(i)	x	x	Compliant
Rate of Change of Frequency (ROCOF) Withstand capability, df/dt	13.1(b)	13.1(b)	x	x	Compliant
Remote cessation of active power	13.6	13.6	x	x	Compliant
Remote control of active power	14.2	14.2(b)		x	Compliant
Limited Frequency Sensitive Mode – Over frequency (LFSM-O)	13.2	13.2(a), (b), (f)	x	x	Compliant
Capability to withstand voltage dips for connection below 110V	14.3	14.2(a)(i), (b)		x	Compliant
Fast fault current Injection, symmetric and asymmetric faults	20.2(b), (c)	20.2(b), (c)		x	Compliant
Active power recovery after fault clearance	20.3	20.3(a)		x	Compliant

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Ratings & Principle Characteristics:

Model	BNT070K TL	BNT075K TL	BNT080K TL	BNT090K TL	BNT100K TL	BNT110K TL
Input (PV)						
Max. input voltage	1100 VDC					
MPPT voltage range	200~1000 VDC					
Max. input current per MPPT	38A					
Max. short-circuit current	48A					
Number of MPP trackers	6					
Max. input number per MPP tracker	2					
Output (On Grid)						
Rated output power	70KW	75KW	80KW	90KW	100KW	110KW
Max. apparent power	70KVA	75KVA	80KVA	90KVA	100KVA	110KVA
Max. output current	111A	120A	127A	143A	158A	159.5A
Rated output voltage	3P+N+PE/3P+PE 230/400V					
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	1.01					

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APPENDIX: Certificate of Conformity

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Ratings & Principle Characteristics:

Model	BNT040KTA	BNT050KTA	BNT060KTA
Input (PV)			
Max. input voltage	750 VDC		
MPPT voltage range	200~600 VDC		
Max. input current per MPPT	38A		
Max. short-circuit current	48A		
Number of MPP trackers	6		
Max. input number per MPP tracker	2		
Output (On Grid)			
Rated output power	40KW	50KW	60KW
Max. apparent power	40KVA	50KVA	60KVA
Max. output current	120A	143A	158A
Rated output voltage	3P+PE/3P 133/230V		
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	1.01		

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