

Test Verification of Conformity

Verification Number: 2501B1504SHA-V1

On the basis of the tests undertaken, the sample<s> of the below product has been tested by an accredited 3rd party laboratory in accordance to the referenced specification<s>/standard<s> at the time the tests were carried out. This verification is part of the full test report<s> and should be read in conjunction with it <them>.

This document can be used in support of a claim in meeting relevant < EU Low Voltage Directive (LVD) (2014/35/EU)>legislation and mandatory Conformity Marking. And in accordance with EU / UK law, the claim is the sole obligation of the Manufacturer/ Importer.

Applicant Name & Address:	Afore New Energy Technology (Shanghai) Co., Ltd. Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China. 201112
Product Description:	PV Grid-interactive inverter
Ratings & Principle Characteristics:	See Appendix(Specifications table)
Models/Type References:	BNT040KTA, BNT050KTA, BNT060KTA, BNT070KTL, BNT075KTL, BNT080KTL, BNT090KTL, BNT100KTL, BNT110KTL
Brand Names:	Afore
Specification<s>/Standards:	IEC 63027:2023
Verification Issuing Office Name & Address:	Intertek Testing Services (Shanghai FTZ) Co., Ltd. Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
Date of Tests:	2024-12-20 to 2025-04-14
Test Report Number(s):	2501B1504SHA-001
Additional information in Appendix.	

Signature



Name: Max Jin

Position: General Manager

Date: 2025-06-27

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2501B1504SHA-V1

Manufacture Name & Address: Same as applicant

Specifications table			
Model	BNT040KTA	BNT050KTA	BNT060KTA
PV input			
P pv Max(kW)	75	90	75
Vmax PV (Vdc) (absolute Max.)	750	750	750
Isc PV (absolute Max.) (A)	48x6	48x6	48x6
Number MPP trackers	6	6	6
Number input strings	2/2/2/2/2/2	2/2/2/2/2/2	2/2/2/2/2/2
Max. PV input current / strings (A)	38x6	38x6	38x6
MPPT voltage range (Vdc)	200-600	200-600	200-600
Vdc range @ full power (Vdc)	350-600	400-600	350-600
AC Grid (output)			
Normal AC Voltage (VAC)	3P+PE/3P 133/230		
Frequency (Hz)	50 / 60		
Normal AC Current (A)	100.5	125.6	150.7
Max. cont. input/output current (A)	120	143	158
Rated Power(kW)	40	50	60
Rated Apparent Power (kVA)	40	50	60
Max. cont. Power (kW)	40	50	60
Max. cont. Apparent Power (kVA)	40	50	60
Power factor (adjustable)	1.0(-0.8~ +0.8)		
Others			
PV DC AFCI	F-I-AFPE-1-6-2		
Ingress protection (IP)	IP66		
Protective class	Class I		
Temperature (°C)	-25°C to +60°C		
Inverter Isolation	Non-isolated		
Overvoltage category	OVC III (AC Main), OVC II (PV)		

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Specifications table						
Model	BNT070 KTL	BNT075 KTL	BNT080 KTL	BNT090 KTL	BNT100 KTL	BNT110 KTL
PV input						
P _{pv} Max(kW)	105	112.5	120	135	150	165
V _{max} PV (Vdc) (absolute Max.)	1100					
I _{sc} PV (absolute Max.) (A)	48 x 6					
Number MPP trackers	6					
Number input strings	2 / 2 / 2 / 2 / 2 / 2					
Max. PV input current / strings (A)	38 x 6					
MPPT voltage range (Vdc)	200-1000					
Vdc range @ full power (Vdc)	500-850					
AC Grid (output)						
Normal AC Voltage (VAC)	3P+N+PE/3P+PE 230/400					
Frequency (Hz)	50 / 60					
Normal AC Current (A)	101.5	108.7	116	130.5	145	159.5
Max. cont. input/output current (A)	111	120	127	143	158	159.5
Rated Power(kW)	70	75	80	90	100	110
Rated Apparent Power (kVA)	70	75	80	90	100	110
Max. cont. Power (kW)	70	75	80	90	100	110
Max. cont. Apparent Power (kVA)	70	75	80	90	100	110
Power factor (adjustable)	1.0(-0.8~ +0.8)					
Others						
PV DC AFCI	F-I-AFPE-1-6-2					
Ingress protection (IP)	IP66					
Protective class	Class I					
Temperature (°C)	-25°C to +60°C					
Inverter Isolation	Non-isolated					
Overvoltage category	OVC III (AC Main), OVC II (PV)					

Signature



Name: Max Jin

Position: General Manager

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