

# Test Verification of Conformity

Verification Number: 2503B0872SHA-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>.

Applicant Name & Address:	Afore New Energy Technology (Shanghai) Co., Ltd. Building 7, No.333 Wanfang Rd, Minhang District, Shanghai. China. 201112
Product Description:	Utility Interactive Inverter(Non-Isolated Inverter)
Ratings & Principle Characteristics:	See Appendix
Models/Type References:	BNT followed by 040, 050 or 060; followed by KTA. BNT followed by 070, 075, 080, 090, 100 or 110; followed by KTB.
Brand Name:	Afore
Relevant Standards/Directives:	47CFR Part 15 (2023) ANSI C63.4 (2014) +A1 (2017)
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:	2024-03-19 to 2024-04-28
Test Report Number(s):	2503B0872SHA-001

  
Signature

Name: Max Jin

Position: General Manager

Date: 2025-04-09

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## APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2503B0872SHA-V1

Specifications table						
Model	BNT070K TB	BNT075K TB	BNT080K TB	BNT090K TB	BNT100K TB	BNT110K TB
<b>PV input</b>						
P <sub>pv</sub> Max(kW)	105	112.5	120	135	150	165
V <sub>max</sub> PV (Vdc) (absolute Max.)	1100					
I <sub>sc</sub> 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					
<b>AC Grid (output)</b>						
Normal AC Voltage (V <sub>AC</sub> )	3P+N+PE/3P+PE, 277/480					
Frequency (Hz)	50 / 60					
Normal AC Current (A)	84.3	90.3	96.3	108.4	120.4	132.4
Max. cont. output current (A)	93	100	106	120	133	146
Normal 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)					
<b>Others</b>						
Protective class	Class I					
Ingress protection (IP)	NEMA 4X					
Temperature (°C)	-25°C to +60°C (Derating 45°C)					
Inverter Isolation	Non-isolated					
Overvoltage category	OVC III (AC Main), OVC II (PV)					
Firmware version	1.01					

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Specifications table			
Model	BNT040KTA	BNT050KTA	BNT060KTA
PV input			
P <sub>pv</sub> Max(kW)	60	75	90
V <sub>max</sub> PV (Vdc) (absolute Max.)	750	750	750
I <sub>sc</sub> PV (absolute Max.) (A)	48x6	48x6	48x6
Max. PV input current / strings (A)	38x6	38x6	38x6
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
MPPT voltage range (Vdc)	200-600	200-600	200-600
Vdc range @ full power (Vdc)	300-600	350-600	400-600
AC Grid (output)			
Normal AC Voltage (V <sub>AC</sub> )	3P+PE/3P, 127/220		
Frequency (Hz)	50 / 60		
Normal AC Current (A)	105	131.3	157.5
Max. cont. output current (A)	120	143	158
Normal 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			
Protective class	Class I		
Ingress protection (IP)	NEMA 4X		
Temperature (°C)	-25°C to +60°C (Derating 45°C)		
Inverter Isolation	Non-isolated		
Overvoltage category	OVC III (AC Main), OVC II (PV)		
Firmware version	1.01		

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