

Test Verification of Conformity

Verification Number: 2503B0871SHA-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 017, 020, 025, 030 or 036; followed by KTA. BNT followed by 030, 036, 040, 050 or 060; 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:	2023-06-28 to 2023-07-17
Test Report Number(s):	2503B0871SHA-001

50 Signature

Name: Max Jin Position: General Manager Date: 2025-04-08

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2503B0871SHA-V1

	Speci	fications table				
Model	BNT030KTB	BNT036KTB	BNT040KTB	BNT050KTB	BNT060KTB	
PV input						
P py Max(kW)	45	54	60	75	90	
Vmax PV (Vdc) (absolute Max.)	1100	1100	1100	1100	1100	
Isc PV (absolute Max.) (A)	48 x 2	48 x 3	48 x 3	48 x 3	48 x 4	
Number MPP trackers	2	3	3	3	4	
Number input strings	2/3	2/2/2	2/2/2	2/2/3	2/2/2/2	
Max. PV input current / strings (A)	38 x 2	38 x 3	38 x 3	40 x 3	38 x 4	
MPPT voltage range (Vdc)	200-1000	200-1000	200-1000	200-1000	200-1000	
Vdc range @ full power (Vdc)	500-850	500-850	500-850	500-850	500-850	
AC Grid (output)						
Normal AC Voltage (VAC)	3P+N+PE/3P+PE, 277/480					
Frequency (Hz)	60					
Normal AC Current (A)	36.2	43.4	48.2	60.2	72.3	
Max. cont. output current (A)	40	48	54	67	80	
Normal Power (kW)	30	36	40	50	60	
Rated Apparent Power (kVA)	30	36	40	50	60	
Max. cont. Power (kW)	30	36	40	50	60	
Max. cont. Apparent Power (kVA)	30	36	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)					

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BNT020KTA 30 750 48x3 3 2/2/2 38x3 200-700 320-600 320-600 320-600	BNT025KTA 37.5 750 48x3 3 2/2/3 40x3 200-700 300-600 P+PE/3P, 127/2 50 / 60 65.7	BNT030KTA 45 750 48x4 4 2/2/2/2 38x4 200-700 300-600 20	BNT036KTA 54 750 48x4 4 2/2/2/2 38x4 200-700 300-600				
750 48x3 3 2/2/2 38x3 200-700 320-600 3F 52.5	750 48x3 3 2/2/3 40x3 200-700 300-600 P+PE/3P, 127/2 50 / 60	750 48x4 4 2/2/2/2 38x4 200-700 300-600	750 48x4 4 2/2/2/2 38x4 200-700				
750 48x3 3 2/2/2 38x3 200-700 320-600 3F 52.5	750 48x3 3 2/2/3 40x3 200-700 300-600 P+PE/3P, 127/2 50 / 60	750 48x4 4 2/2/2/2 38x4 200-700 300-600	750 48x4 4 2/2/2/2 38x4 200-700				
48x3 3 2/2/2 38x3 200-700 320-600 31 52.5	48x3 3 2/2/3 40x3 200-700 300-600 P+PE/3P, 127/2 50 / 60	48x4 4 2/2/2/2 38x4 200-700 300-600	48x4 4 2/2/2/2 38x4 200-700				
3 2/2/2 38x3 200-700 320-600 3F 52.5	3 2/2/3 40x3 200-700 300-600 P+PE/3P, 127/2 50 / 60	4 2/2/2/2 38x4 200-700 300-600	4 2/2/2/2 38x4 200-700				
2/2/2 38x3 200-700 320-600 3F 52.5	2/2/3 40x3 200-700 300-600 P+PE/3P, 127/2 50 / 60	2/2/2/2 38x4 200-700 300-600	2/2/2/2 38x4 200-700				
38x3 200-700 320-600 3F 52.5	40x3 200-700 300-600 P+PE/3P, 127/2 50 / 60	38x4 200-700 300-600	38x4 200-700				
200-700 320-600 3F 52.5	200-700 300-600 P+PE/3P, 127/2 50 / 60	200-700 300-600	200-700				
320-600 3F 52.5	300-600 P+PE/3P, 127/2 50 / 60	300-600					
3F 52.5	P+PE/3P, 127/2 50 / 60		300-600				
52.5	50 / 60	20					
52.5	50 / 60	20					
	1						
	65.7	50 / 60					
60	00.1	78.8	94.5				
00	80	96	96				
20	25	30	36				
20	25	30	36				
20	25	30	36				
20	25	30	36				
1.0(-0.8~ +0.8)							
Class I							
NEMA 4X							
-25°C to +60°C (Derating 45°C)							
Non-isolated							
OVC III (AC Main), OVC II (PV)							
	20 20 20 -25°C to	20 25 20 25 20 25 1.0(-0.8~+0.8) Class I Class I NEMA 4X -25°C to +60°C (Derating Non-isolated	20 25 30 20 25 30 20 25 30 1.0(-0.8~ +0.8) 1.0(-0.8~ +0.8) Class I NEMA 4X -25°C to +60°C (Derating 45°C) Non-isolated				

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