

Test Verification of Conformity

Verification Number: 2503B0870SHA-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 Road, Minhang District, Shanghai 201112, China
Product Description:	Utility Interactive Inverter(Non-Isolated Inverter)
Ratings & Principle Characteristics:	See APPENDIX for details
Models/Type References:	BNT followed by 003, 004, 005, 006, 008, 010, 012 or 015; followed by KTA.
	BNT followed by 003, 004, 005, 006, 008, 010, 012, 013, 015, 017, 020 or
Brand Name <s>:</s>	025; followed by KTB. Afore
Specification <s>/Standard<s>:</s></s>	CFR 47 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), Caohejing Development Zone, Shanghai 200233, China
Date of Tests:	2023-06-28 to 2023-07-17, 2024-04-25 to 2024-05-14
Test Report Number <s>:</s>	2503B0870SHA-001

Cean. Signature

Name: Max Jin

Position: Genearl Manager Date: 2025-04-08



APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2503B0870SHA-V1.

Specifications table				
Model	BNT003KTB	BNT004KTB	BNT005KTB	BNT006KTB
PV input				
P pv Max(kW)	5.1	6	7.5	9
Vmax PV (Vdc) (absolute Max.)	1100	1100	1100	1100
Isc PV (absolute Max.) (A)	25 x 2	25 x 2	25 x 2	25 x 2
Number MPP trackers	2	2	2	2
Number input strings	1/1	1/1	1/1	1/1
Max. PV input current (A)	15 x 2	15 x 2	15 x 2	15 x 2
MPPT voltage range (Vdc)	150-1000	150-1000	150-1000	150-1000
Vdc range @ full power (Vdc)	200-850	200-850	200-850	250-850
AC Grid (output)				
Normal AC Voltage (VAC)	3P+N+PE/3P+PE, 277/480			
Frequency (Hz)	60			
Normal AC Current (A)	3.7	4.9	6.1	7.3
Max. cont. output current (A)	5	6	7	9
Normal Power (kW)	3	4	5	6
Rated Apparent Power (kVA)	3	4	5	6
Max. cont. Power (kW)	3	4	5	6
Max. cont. Apparent Power (kVA)	3	4	5	6
Power factor(adjustable)	1.0(-0.8~+0.8)			
Others				
Protective class	Class I			
Ingress protection (IP)	NEMA 4X			
Temperature (℃)	-25℃ to +60℃ (Derating 45℃)			
Inverter Isolation	Non-isolated			
Overvoltage category	OVC III (AC Main), OVC II (PV)			
		6		

	Specifications table				
Model	BNT008KTB BNT010KTB BNT012KTB BNT013				
PV input					
P pv Max(kW)	12	15	18	19.5	
Vmax PV (Vdc) (absolute Max.)	1100	1100	1100	1100	
Isc PV (absolute Max.) (A)	25 x 2	25 x 2	25 x 2	25 x 2	
Number MPP trackers	2	2	2	2	
Number input strings	1/1	1/1	1/1	1/1	
Max. PV input current (A)	15 x 2	15 x 2	15 x 2	15 x 2	
MPPT voltage range (Vdc)	150-1000	150-1000	150-1000	150-1000	
Vdc range @ full power (Vdc)	300-850	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)	9.7	12.1	14.5	15.7	
Max. cont. output current (A)	11	14	16	18	
Normal Power (kW)	8	10	12	13	
Rated Apparent Power (kVA)	8	10	12	13	
Max. cont. Power (kW)	8	10	12	13	
Max. cont. Apparent Power (kVA)	8	10	12	13	
Power factor(adjustable)	1.0(-0.8~+0.8)				
Others					
Protective class	Class I				
Ingress protection (IP)	NEMA 4X				
Temperature (℃)	-25℃ to +60℃ (Derating 45℃)				
Inverter Isolation	Non-isolated				
Overvoltage category	OVC III (AC Main), OVC II (PV)				



Model		ons table		
	BNT015KTB	BNT017KTB	BNT020KTB	BNT025KTB
PV input				
P pv Max(kW)	22.5	25.5	30	37.5
Vmax PV (Vdc) (absolute Max.)	1100	1100	1100	1100
Isc PV (absolute Max.) (A)	30 + 48	48 x 2	48 x 2	48 x 2
Number MPP trackers	2	2	2	2
Number input strings	1/2	2/2	2/2	2/2
Max. PV input current (A)	20 + 32	32 x 2	32 x 2	32 x 2
MPPT voltage range (Vdc)	150-1000	150-1000	150-1000	150-1000
Vdc range @ full power (Vdc)	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)	18.1	20.5	24.1	30.1
Max. cont. output current (A)	20	23	27	34
Normal Power (kW)	15	17	20	25
Rated Apparent Power (kVA)	15	17	20	25
Max. cont. Power (kW)	15	17	20	25
Max. cont. Apparent Power (kVA)	15	17	20	25
Power factor(adjustable)	1.0(-0.8~+0.8)			
Others				
Protective class	Class I			
Ingress protection (IP)	NEMA 4X			
Temperature (℃)	-25℃ to +60℃ (Derating 45℃)			
Inverter Isolation	Non-isolated			
Overvoltage category	OVC III (AC Main), OVC II (PV)			



BNT005KTA 7500 750 25x 2 2 1/1 15 x 2 150-600 220-600 P, 127/220 50 13.2	BNT006KTA 9000 750 25x 2 2 1/1 15 x 2 150-600 220-600		
750 25x 2 2 1/1 15 x 2 150-600 220-600 P, 127/220 60 13.2	750 25x 2 2 1/1 15 x 2 150-600		
750 25x 2 2 1/1 15 x 2 150-600 220-600 P, 127/220 60 13.2	750 25x 2 2 1/1 15 x 2 150-600		
25x 2 2 1/1 15 x 2 150-600 220-600 P, 127/220 60 13.2	25x 2 2 1/1 15 x 2 150-600		
2 1/1 15 x 2 150-600 220-600 P, 127/220 60 13.2	2 1/1 15 x 2 150-600		
1/1 15 x 2 150-600 220-600 P, 127/220 60 13.2	1/1 15 x 2 150-600		
15 x 2 150-600 220-600 P, 127/220 60 13.2	15 x 2 150-600		
150-600 220-600 P, 127/220 60 13.2	150-600		
220-600 P, 127/220 60 13.2			
P, 127/220 60 13.2	220-600		
60 13.2			
60 13.2			
13.2			
	15.8		
17.0	21.5		
5000	6000		
5000	6000		
5000	6000		
5000	6000		
1.0(-0.8~ +0.8)			
Class I			
IA 4X			
-25°C to +60°C (Derating 45°C)			
Non-isolated			
OVC III (AC Main), OVC II (PV)			
	ass I MA 4X : (Derating 45°C) isolated		



Specifications table					
Model	BNT008KTA BNT010KTA BNT012KTA BNT015				
PV input					
P pv Max(W)	12000	15000	18000	22500	
Vmax PV (Vdc) (absolute Max.)	750	750	750	750	
Isc PV (absolute Max.) (A)	30+48	48 x 2	48 x 2	48 x2	
Number MPP trackers	2	2	2	2	
Number input strings	1/2	2/2	2/2	2/2	
Max. PV input current (A)	20+32	32x 2	32x 2	32x 2	
MPPT voltage range (Vdc)	150-600	150-600	150-600	150-600	
Vdc range @ full power (Vdc)	200-600	200-600	250-600	300-600	
AC Grid (output)					
Normal AC Voltage (VAC)	3P+PE/3P, 127/220				
Frequency (Hz)	60				
Normal AC Current (A)	21	26.3	31.5	39.4	
Max. cont. output current (A)	27	30	32	40	
Normal Power (W)	8000	10000	12000	15000	
Rated Apparent Power (VA)	8000	10000	12000	15000	
Max. cont. Power (W)	8000	10000	12000	15000	
Max. cont. Apparent Power (VA)	8000	10000	12000	15000	
Power factor(adjustable)		1.0(-0.8	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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