

# Test Verification of Conformity

Verification Number: 240500343SHA-V7

On the basis of the referenced test report(s), sample(s) tested of the below product have been found to comply with the standards harmonized with the directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it <them>.



Once compliance with all product relevant mark directives are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested sample(s).

Applicant Name & Address:	Afore New Energy Technology (Shanghai) Co., Ltd. Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China. 201112
Product Description: Ratings & Principle Characteristics:	PV Grid interactive inverter See Appendix
Models/Type References:	BNT003KTA, BNT004KTA, BNT005KTA, BNT006KTA, BNT008KTA, BNT010KTA, BNT012KTA, BNT015KTA, BNT003KTL, BNT004KTL, BNT005KTL, BNT006KTL, BNT008KTL, BNT010KTL, BNT012KTL, BNT013KTL, BNT015KTL, BNT017KTL, BNT020KTL, BNT025KTL
Brand Name:	Afore
Relevant Standards/Directives:	IEC/EN 62109-1:2010 IEC/EN 62109-2:2011 the Low Voltage Directive 2014/35/EU
Verification Issuing Office Name & Address:	Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
Date of Tests:	2024-04-17 to 2024-05-14
Test Report Number(s):	240500343SHA-007/008

  
**Signature**

**Name: Max Jin**

**Position: General Manager**

**Date: 2024-05-14**

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## APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 240500343SHA-V7

### Ratings:

Specifications table				
Model	BNT003KTA	BNT004KTA	BNT005KTA	BNT006KTA
<b>PV input</b>				
P <sub>pv</sub> Max(W)	5100	6000	7500	9000
V <sub>max</sub> PV (Vdc) (absolute Max.)	750	750	750	750
I <sub>sc</sub> PV (absolute Max.) (A)	25x 2	25x 2	25x 2	25x 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)	150-600	150-600	150-600	150-600
Vdc range @ full power (Vdc)	220-600	220-600	220-600	220-600
<b>AC Grid (output)</b>				
Normal AC Voltage (VAC)	3P+PE/3P 133/230			
Frequency (Hz)	50			
Normal AC Current (A)	7.6	10.1	12.6	15.1
Max. cont. output current (A)	10.5	13.5	17.0	21.5
Normal Power (W)	3000	4000	5000	6000
Rated Apparent Power (VA)	3000	4000	5000	6000
Max. cont. Power (W)	3000	4000	5000	6000
Max. cont. Apparent Power (VA)	3000	4000	5000	6000
Power factor(adjustable)	1.0(-0.8~ +0.8)			
<b>Others</b>				
Protective class	Class I			
Ingress protection (IP)	IP66			
Temperature (°C)	-25°C to +60°C (Derating 45°C )			
Inverter Isolation	Non-isolated			
Overtoltage category	OVC III (AC Main), OVC II (PV)			
Software version	DSP: V06 CPLD:V06 HMI:V06			

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Specifications table				
Model	BNT008KTA	BNT010KTA	BNT012KTA	BNT015KTA
<b>PV input</b>				
P <sub>pv</sub> Max(W)	12000	15000	18000	22500
V <sub>max</sub> PV (Vdc) (absolute Max.)	750	750	750	750
I <sub>sc</sub> 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
<b>AC Grid (output)</b>				
Normal AC Voltage (VAC)	3P+PE/3P 133/230			
Frequency (Hz)	50			
Normal AC Current (A)	20.1	25.1	30.1	37.6
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~ +0.8)			
<b>Others</b>				
Protective class	Class I			
Ingress protection (IP)	IP66			
Temperature (°C)	-25°C to +60°C(Derating 45°C )			
Inverter Isolation	Non-isolated			
Overvoltage category	OVC III (AC Main), OVC II (PV)			
Software version	DSP: V06 CPLD:V06 HMI:V06			

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Specifications table				
Model	BNT003KTL	BNT004KTL	BNT005KTL	BNT006KTL
<b>PV input</b>				
P <sub>pv</sub> Max(W)	5100	6000	7500	9000
V <sub>max</sub> PV (Vdc) (absolute Max.)	1100	1100	1100	1100
I <sub>sc</sub> 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
<b>AC Grid (output)</b>				
Normal AC Voltage (VAC)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Normal AC Current (A)	4.4	5.8	7.3	8.7
Max. cont. output current (A)	5.3	7	8.5	10.5
Normal Power (W)	3000	4000	5000	6000
Rated Apparent Power (VA)	3000	4000	5000	6000
Max. cont. Power (W)	3000	4000	5000	6000
Max. cont. Apparent Power (VA)	3000	4000	5000	6000
Power factor(adjustable)	1.0(-0.8~ +0.8)			
<b>Others</b>				
Protective class	Class I			
Ingress protection (IP)	IP66			
Temperature (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated			
Oversvoltage category	OVC III (AC Main), OVC II (PV)			
Software version	DSP: V06 CPLD:V06 HMI:V06			

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Specifications table				
Model	BNT008KTL	BNT010KTL	BNT012KTL	BNT013KTL
<b>PV input</b>				
P <sub>pv</sub> Max(W)	12000	15000	18000	19500
V <sub>max</sub> PV (Vdc) (absolute Max.)	1100	1100	1100	1100
I <sub>sc</sub> 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
<b>AC Grid (output)</b>				
Normal AC Voltage (VAC)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Normal AC Current (A)	11.6	14.5	17.4	18.9
Max. cont. output current (A)	13.5	17	21.5	22
Normal Power (W)	8000	10000	12000	13000
Rated Apparent Power (VA)	8000	10000	12000	13000
Max. cont. Power (W)	8000	10000	12000	13000
Max. cont. Apparent Power (VA)	8000	10000	12000	13000
Power factor(adjustable)	1.0(-0.8~ +0.8)			
<b>Others</b>				
Protective class	Class I			
Ingress protection (IP)	IP66			
Temperature (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated			
Overvoltage category	OVC III (AC Main), OVC II (PV)			
Software version	DSP: V06 CPLD:V06 HMI:V06			

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Specifications table				
Model	BNT015KTL	BNT017KTL	BNT020KTL	BNT025KTL
<b>PV input</b>				
P <sub>pv</sub> Max(W)	22500	25500	30000	37500
V <sub>max</sub> PV (Vdc) (absolute Max.)	1100	1100	1100	1100
I <sub>sc</sub> 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
<b>AC Grid (output)</b>				
Normal AC Voltage (VAC)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Normal AC Current (A)	21.8	24.7	29	36.3
Max. cont. output current (A)	27	30	32	40
Normal Power (W)	15000	17000	20000	25000
Rated Apparent Power (VA)	15000	17000	20000	25000
Max. cont. Power (W)	15000	17000	20000	25000
Max. cont. Apparent Power (VA)	15000	17000	20000	25000
Power factor(adjustable)	1.0(-0.8~ +0.8)			
<b>Others</b>				
Protective class	Class I			
Ingress protection (IP)	IP66			
Temperature (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated			
Oversvoltage category	OVC III (AC Main), OVC II (PV)			
Software version	DSP: V06 CPLD:V06 HMI:V06			

Signature



Name: Max Jin

Position: General Manager

Date: 2024-05-14

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