Test Verification of Conformity

Verification Number: 2501B1502SHA-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:	BNT003KTA, BNT004KTA, BNT005KTA, BNT006KTA, BNT008KTA, BNT010KTA, BNT012KTA, BNT015KTA, BNT003KTL, BNT004KTL, BNT005KTL, BNT006KTL, BNT008KTL, BNT010KTL, BNT012KTL, BNT013KTL, BNT015KTL, BNT017KTL, BNT020KTL, BNT025KTL
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):	2501B1502SHA-001

Additional information in Appendix.

Signature

Name: Max Jin
Position: General Manager
Date: 2025-06-27

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2501B1502SHA-V1

Manufacture Name & Address:	Same as applicant

Specifications table				
Model	BNT003KTA	BNT004KTA	BNT005KTA	BNT006KTA
PV input				
P pv Max(kW)	5.1	6	7.5	9
Vmax PV (Vdc) (absolute Max.)	750	750	750	750
Isc 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 / strings (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
AC Grid (output)				
Normal AC Voltage (VAC)	3P+PE/3P 133/230			
Frequency (Hz)	50 / 60			
Normal AC Current (A)	7.6	10.1	12.6	15.1
Max. cont. input/output current (A)	10.5	13.5	17.0	21.5
Rated 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				
PV DC AFCI	F-I-AFPE-1-2-1			
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)			

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2501B1502SHA-V1

Specifications table				
Model	BNT008KTA	BNT010KTA	BNT012KTA	BNT015KTA
PV input				
P pv Max(kW)	12	15	18	22.5
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 / strings (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 133/230			
Frequency (Hz)	50 / 60			
Normal AC Current (A)	20.1	25.1	30.1	37.6
Max. cont. input/output current (A)	27	30	32	40
Rated Power(kW)	8	10	12	15
Rated Apparent Power (kVA)	8	10	12	15
Max. cont. Power (kW)	8	10	12	15
Max. cont. Apparent Power (kVA)	8	10	12	15
Power factor (adjustable)	1.0(-0.8~ +0.8)			
Others				
PV DC AFCI	F-I-AFPE-1-3-1	F-I-AFPE-1-4-1		
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)			

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2501B1502SHA-V1

Specifications table				
Model	BNT003KTL	BNT004KTL	BNT005KTL	BNT006KTL
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 / strings (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 230/400			
Frequency (Hz)	50 / 60			
Normal AC Current (A)	4.4	5.8	7.3	8.7
Max. cont. input/output current (A)	5.3	7	8.5	10.5
Rated 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				
PV DC AFCI	F-I-AFPE-1-2-1			
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)			

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2501B1505SHA-V1

Specifications table				
Model	BNT008KTL	BNT010KTL	BNT012KTL	BNT013KTL
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 / strings (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 230/400			
Frequency (Hz)	50 / 60			
Normal AC Current (A)	11.6	14.5	17.4	18.9
Max. cont. input/output current (A)	13.5	17	21.5	22
Rated 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				
PV DC AFCI	F-I-AFPE-1-2-1			
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)			

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2501B1505SHA-V1

Specifications table				
Model	BNT015KTL	BNT017KTL	BNT020KTL	BNT025KTL
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 / strings (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 230/400			
Frequency (Hz)	50 / 60			
Normal AC Current (A)	21.8	24.7	29	36.3
Max. cont. input/output current (A)	27	30	32	40
Rated 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				
PV DC AFCI	F-I-AFPE-1-3-1	F-I-AFPE-1-4-1		
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
Date: 2025-06-27