

# Test Verification of Conformity

Verification Number: 2501B1503SHA-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:	BNT017KTA, BNT020KTA, BNT025KTA, BNT030KTA, BNT036KTA, BNT030KTL, BNT036KTL, BNT040KTL, BNT050KTL, BNT060KTL
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):	2501B1503SHA-001
Additional information in Appendix.	

Signature



Name: Max Jin

Position: General Manager

Date: 2025-06-27

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## APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2501B1503SHA-V1

Manufacture Name & Address: Same as applicant

Specifications table					
Model	BNT017K TA	BNT020K TA	BNT025K TA	BNT030K TA	BNT036K TA
PV input					
P pv Max(kW)	25.5	30	37.5	45	54
Vmax PV (Vdc) (absolute Max.)	750	750	750	750	750
Isc PV (absolute Max.) (A)	48 x2	48x3	48x3	48x4	48x4
Number MPP trackers	2	3	3	4	4
Number input strings	2/3	2/2/2	2/2/3	2/2/2/2	2/2/2/2
Max. PV input current / strings (A)	38x 2	38 x3	40x3	38 x4	38 x4
MPPT voltage range (Vdc)	200-700	200-700	200-700	200-700	200-700
Vdc range @ full power (Vdc)	310-600	320-600	300-600	300-600	300-600
AC Grid (output)					
Normal AC Voltage (VAC)	3P+PE/3P 133/230				
Frequency (Hz)	50 / 60				
Normal AC Current (A)	42.7	50.2	62.7	75.2	90.4
Max. cont. input/output current (A)	48	60	80	96	96
Rated Power(kW)	17	20	25	30	36
Rated Apparent Power (kVA)	17	20	25	30	36
Max. cont. Power (kW)	17	20	25	30	36
Max. cont. Apparent Power (kVA)	17	20	25	30	36
Power factor (adjustable)	1.0( -0.8~ +0.8)				
Others					
PV DC AFCI	F-I-AFPE-1-5-1	F-I-AFPE-1-6-1	F-I-AFPE-1-7-1	F-I-AFPE-1-4-2	F-I-AFPE-1-4-2
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)				

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## APPENDIX: Test Verification of Conformity

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Specifications table					
Model	BNT030K TL	BNT036K TL	BNT040K TL	BNT050K TL	BNT060K TL
<b>PV input</b>					
P <sub>pv</sub> Max(kW)	45	54	60	75	90
V <sub>max</sub> PV (Vdc) (absolute Max.)	1100	1100	1100	1100	1100
I <sub>sc</sub> 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
<b>AC Grid (output)</b>					
Normal AC Voltage (VAC)	3P+N+PE/3P+PE 230/400				
Frequency (Hz)	50 / 60				
Normal AC Current (A)	42.7	50.2	62.7	75.2	90.4
Max. cont. input/output current (A)	48	60	80	96	96
Rated Power(kW)	17	20	25	30	36
Rated Apparent Power (kVA)	17	20	25	30	36
Max. cont. Power (kW)	17	20	25	30	36
Max. cont. Apparent Power (kVA)	17	20	25	30	36
Power factor (adjustable)	1.0( -0.8~ +0.8)				
<b>Others</b>					
PV DC AFCI	F-I-AFPE-1-5-1	F-I-AFPE-1-6-1	F-I-AFPE-1-6-1	F-I-AFPE-1-7-1	F-I-AFPE-1-4-2
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



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