

Test Verification of Conformity

Verification Number: 2604B1656SHA-V1

On the basis of the tests undertaken, the sample<s> of the below product has been tested by an a 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:	Grid-interactive inverter
Ratings & Principal Characteristics:	See Appendix(Specifications table)
Models/Type References:	BNT017KTA, BNT020KTA, BNT24.99KTA, BNT025KTA, BNT29.99KTA, BNT030KTA, BNT036KTA, BNT29.99KTL, BNT030KTL, BNT036KTL, BNT040KTL, BNT050KTL, BNT060KTL.
Brand Names:	Afore
Specification<s>/Standards:	IEC/EN 62109-1:2010 IEC/EN 62109-2:2011
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:	2026-04-16 to 2026-05-11
Test Report Number(s):	2604B1656SHA-001/002
Additional information in Appendix.	


Signature

Name: Max Jin

Position: General Manager

Date: 2026-05-15

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2604B1656SHA-V1

Manufacture Name & Address: Same as applicant

Specifications table				
Model	BNT29.99KTL	BNT030KTL	BNT036KTL	BNT040KTL
PV input				
P _{pv} Max(kW)	45	45	54	60
V _{max} PV (Vdc) (absolute Max.)	1100	1100	1100	1100
I _{sc} PV (absolute Max.) (A)	48 x 2	48 x 2	48 x 3	48 x 3
Max. PV input current / strings (A)	38 x 2	38 x 2	38 x 3	38 x 3
Number MPP trackers	2	2	3	3
Number input strings	2/3	2/3	2/2/2	2/2/2
MPPT voltage range (Vdc)	200-1000	200-1000	200-1000	200-1000
AC Grid (output)				
Normal AC Voltage (V _{AC})	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Normal AC Current (A)	43.5	43.5	52.2	58
Max. cont. output current (A)	48	48	60	65
Normal Power (kW)	29.99	30	36	40
Rated Apparent Power (kVA)	29.99	30	36	40
Max. cont. Power (kW)	29.99	30	36	40
Max. cont. Apparent Power (kVA)	29.99	30	36	40
Power factor(adjustable)	1.0(-0.8~ +0.8)			
Others				
Protective class	Class I			
Ingress protection (IP)	IP66			
Temperature (°C)	-25°C to +60°C (Derating45°C)			
Inverter Isolation	Non-isolated			
Overvoltage category	OVC III (AC Main), OVC II (PV)			
Firmware version	1.01			

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Specifications table			
Model	BNT050KTL	BNT060KTL	
PV input			
P pv Max(kW)	75	90	
Vmax PV (Vdc) (absolute Max.)	1100	1100	
Isc PV (absolute Max.) (A)	48 x 3	48 x 4	
Max. PV input current / strings (A)	40 x 3	38 x 4	
Number MPP trackers	3	4	
Number input strings	2/2/3	2/2/2/2	
MPPT voltage range (Vdc)	200-1000	200-1000	
AC Grid (output)			
Normal AC Voltage (V _{AC})	3P+N+PE/3P+PE 230/400		
Frequency (Hz)	50		
Normal AC Current (A)	72.5	87	
Max. cont. output current (A)	80	96	
Normal Power (kW)	50	60	
Rated Apparent Power (kVA)	50	60	
Max. cont. Power (kW)	50	60	
Max. cont. Apparent Power (kVA)	50	60	
Power factor(adjustable)	1.0(-0.8~ +0.8)		
Others			
Protective class	Class I		
Ingress protection (IP)	IP66		
Temperature (°C)	-25°C to +60°C (Derating45°C)		
Inverter Isolation	Non-isolated		
Overvoltage category	OVC III (AC Main), OVC II (PV)		
Firmware version	1.01		

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Specifications table				
Model	BNT017KTA	BNT020KTA	BNT24.99KTA	BNT025KTA
PV input				
P pv Max(kW)	25.5	30	37.5	37.5
Vmax PV (Vdc) (absolute Max.)	750	750	750	750
Isc PV (absolute Max.) (A)	48x2	48x3	48x3	48x3
Max. PV input current / strings (A)	2	3	3	3
Number MPP trackers	2/3	2/2/2	2/2/3	2/2/3
Number input strings	38x2	38x3	40x3	40x3
MPPT voltage range (Vdc)	200-700	200-700	200-700	200-700
AC Grid (output)				
Normal AC Voltage (V _{AC})	3P+PE/3P 133/230			
Frequency (Hz)	50			
Normal AC Current (A)	42.7	50.2	62.7	62.7
Max. cont. output current (A)	48	60	80	80
Normal Power (kW)	17	20	24.99	25
Rated Apparent Power (kVA)	17	20	24.99	25
Max. cont. Power (kW)	17	20	24.99	25
Max. cont. Apparent Power (kVA)	17	20	24.99	25
Power factor(adjustable)	1.0(-0.8~ +0.8)			
Others				
Protective class	Class I			
Ingress protection (IP)	IP66			
Temperature (°C)	-25°C to +60°C (Derating45°C)			
Inverter Isolation	Non-isolated			
Overvoltage category	OVC III (AC Main), OVC II (PV)			
Firmware version	1.01			

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Specifications table				
Model	BNT29.99KTA	BNT030KTA	BNT036KTA	
PV input				
P pv Max(kW)	45	45	54	
Vmax PV (Vdc) (absolute Max.)	750	750	750	
Isc PV (absolute Max.) (A)	48x4	48x4	48x4	
Max. PV input current / strings (A)	4	4	4	
Number MPP trackers	2/2/2/2	2/2/2/2	2/2/2/2	
Number input strings	38x4	38x4	38x4	
MPPT voltage range (Vdc)	200-700	200-700	200-700	
AC Grid (output)				
Normal AC Voltage (V _{AC})	3P+PE/3P 133/230			
Frequency (Hz)	50			
Normal AC Current (A)	75.2	75.2	90.4	
Max. cont. output current (A)	87	87	96	
Normal Power (kW)	29.99	30	36	
Rated Apparent Power (kVA)	29.99	30	36	
Max. cont. Power (kW)	29.99	30	36	
Max. cont. Apparent Power (kVA)	29.99	30	36	
Power factor(adjustable)	1.0(-0.8~ +0.8)			
Others				
Protective class	Class I			
Ingress protection (IP)	IP66			
Temperature (°C)	-25°C to +60°C (Derating45°C)			
Inverter Isolation	Non-isolated			
Overvoltage category	OVC III (AC Main), OVC II (PV)			
Firmware version	1.01			

Signature



Name: Max Jin

Position: General Manager

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