Test Verification of Conformity

Verification Number: 2412B0922SHA-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:	Grid-connected PV inverter
Ratings & Principle Characteristics:	See Appendix(Specifications table)
Models/Type References:	BNT070KTL, BNT075KTL, BNT080KTL, BNT090KTL. BNT100KTL, BNT110KTL, BNT036KTA, BNT040KTA, BNT050KTA, BNT060KTA
Brand Names:	Afore
Specification<s>/Standards:	IEC 61683:1999
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:	2024-12-11 to 2025-01-16
Test Report Number(s):	2412B0922SHA-001

Additional information in Appendix.

Signature

Name: Max Jin
Position: General Manager
Date: 2025-01-20

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2412B0922SHA-V1

Manufacture Name & Address:	Same as applicant

Specifications table						
Model	BNT070 KTL	BNT075 KTL	BNT080 KTL	BNT090 KTL	BNT100 KTL	BNT110 KTL
PV input						
P pv Max(kW)	105	112.5	120	135	150	165
Vmax PV (Vdc) (absolute Max.)	1100					
Isc PV (absolute Max.) (A)	48 x 6					
Number MPP trackers	6					
Number input strings	2 / 2 / 2 / 2 / 2 / 2					
Max. PV input current / strings (A)	38 x 6					
MPPT voltage range (Vdc)	200-1000					
Vdc range @ full power (Vdc)	500-850					
AC Grid (output)						
Normal AC Voltage (V_{AC})	3P+N+PE/3P+PE 230/400					
Frequency (Hz)	50					
Normal AC Current (A)	101.5	108.7	116	130.5	145	159.5
Max. cont. output current (A)	111	120	127	143	158	159.5
Normal Power (kW)	70	75	80	90	100	110
Rated Apparent Power (kVA)	70	75	80	90	100	110
Max. cont. Power (kW)	70	75	80	90	100	110
Max. cont. Apparent Power (kVA)	70	75	80	90	100	110
Power factor(adjustable)	1.0(-0.8~ +0.8)					
Others						
Protective class	Class I					
Ingress protection (IP)	IP66					
Temperature (℃)	-25℃ to +60℃ (Derating 45℃)					
Inverter Isolation	Non-isolated					
Overvoltage category	OVC III (AC Main), OVC II (PV)					
Firmware version	1.01					

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2412B0922SHA-V1

Specifications table				
Model	BNT036KTA	BNT040KTA	BNT050KTA	BNT060KTA
PV input				
P pv Max(kW)	54	60	75	90
Vmax PV (Vdc) (absolute Max.)	750	750	750	750
Isc PV (absolute Max.) (A)	48x6	48x6	48x6	48x6
Max. PV input current / strings (A)	38x6	38x6	38x6	38x6
Number MPP trackers	6	6	6	6
Number input strings	2/2/2/2/2/2	2/2/2/2/2/2	2/2/2/2/2/2	2/2/2/2/2/2
MPPT voltage range (Vdc)	200-600	200-600	200-600	200-600
Vdc range @ full power (Vdc)	300-600	300-600	350-600	400-600
AC Grid (output)				
Normal AC Voltage (V_{AC})	3P+PE/3P 133/230			
Frequency (Hz)	50			
Normal AC Current (A)	90.4	100.5	125.6	150.7
Max. cont. output current (A)	111	120	143	158
Normal Power (kW)	36	40	50	60
Rated Apparent Power (kVA)	36	40	50	60
Max. cont. Power (kW)	36	40	50	60
Max. cont. Apparent Power (kVA)	36	40	50	60
Power factor(adjustable)	1.0(-0.8~ +0.8)			
Others				
Protective class	Class I			
Ingress protection (IP)	IP66			
Temperature (℃)	-25℃ to +60℃ (Derating 45℃)			
Inverter Isolation	Non-isolated			
Overvoltage category	OVC III (AC Main), OVC II (PV)			
Firmware version	1.01			

Signature

Name: Max Jin
Position: General Manager
Date: 2025-01-20