

Certificate of Conformity

Certificate Number: CN-PVES-250050

On the basis of the tests undertaken, the samples of the below product have been found to comply with the requirements of the referenced standards at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture. The manufacturer shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

Applicant:	Afore New Energy Technology (Shanghai) Co., Ltd. Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China. 201112
Product:	Grid-connected PV inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	BNT070KTL, BNT075KTL, BNT080KTL, BNT090KTL, BNT100KTL, BNT110KTL BNT036KTA, BNT040KTA, BNT050KTA, BNT060KTA
Brand Name<s>:	Afore
Product Complies with:	IEC 61727:2004 IEC 62116:2014
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai West Area, 2 nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012
Test Report No.<s>:	2412B0921SHA-001

Additional information in Appendix.



Signature

Certification Manager: Qiao Qiao

Date: 23 January 2025



PRD N° 306B

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250050

Ratings & Principal Characteristics:

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
V _{max} PV (Vdc) (absolute Max.)	1100					
I _{sc} 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 (°C)	-25°C to +60°C (Derating 45°C)					
Inverter Isolation	Non-isolated					
Oversvoltage category	OVC III (AC Main), OVC II (PV)					
Firmware version	1.01					

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Ratings & Principal Characteristics:

Specifications table				
Model	BNT036KTA	BNT040KTA	BNT050KTA	BNT060KTA
PV input				
P _{pv} Max(kW)	54	60	75	90
V _{max} PV (Vdc) (absolute Max.)	750	750	750	750
I _{sc} 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 (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated			
Overvoltage category	OVC III (AC Main), OVC II (PV)			
Firmware version	1.01			

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