

Certificate of Conformity

Certificate Number: CN-PV-230411

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture(s). The manufacturer(s) 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:	PV Grid interactive inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	BNT017KTA, BNT020KTA, BNT025KTA, BNT030KTA, BNT030KTL, BNT036KTL, BNT040KTL, BNT050KTL, BNT060KTL
Brand Name<s>:	Afore
Product Complies with:	EN 50549-1:2019 Requirements for the connection of generation equipment in parallel with public distribution networks
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>:	230401862SHA-001

Additional information in Appendix.



Signature

Certification Manager: Qiao Qiao

Date: 19 July 2023



PRD N° 306B

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230411

Ratings & Principle Characteristics:

Specifications table				
Model	BNT017KTA	BNT020KTA	BNT025KTA	BNT030KTA
PV input				
P _{pv} Max(W)	25500	30000	37500	45000
V _{max} PV (Vdc) (absolute Max.)	750	750	750	750
I _{sc} PV (absolute Max.) (A)	48 x2	48x3	48x3	48x4
Number MPP trackers	2	3	3	4
Number input strings	2/3	2/2/2	2/2/3	2/2/2/2
Max. PV input current (A)	38x 2	38 x3	40x3	38 x4
MPPT voltage range (Vdc)	200-700	200-700	200-700	200-700
Vdc range @ full power (Vdc)	310-600	320-600	300-600	300-600
AC Grid (output)				
Normal AC Voltage (VAC)	3P+PE/3P 133/230			
Frequency (Hz)	50			
Normal AC Current (A)	42.7	50.2	62.7	75.2
Max. cont. output current (A)	48	60	80	96
Normal Power (W)	17000	20000	25000	30000
Rated Apparent Power (VA)	17000	20000	25000	30000
Max. cont. Power (W)	17000	20000	25000	30000
Max. cont. Apparent Power (VA)	17000	20000	25000	30000
Power factor(adjustable)	1.0(-0.8~ +0.8)			
Others				
Protective class	Class I			
Ingress protection (IP)	IP65			
Temperature (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated			
Overvoltage category	OVC III (AC Main), OVC II (PV)			
Software version	DSP:V06 CPLD:V06 HMI:V06			

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Ratings & Principle Characteristics:

Specifications table					
Model	BNT030KTL	BNT036KTL	BNT040KTL	BNT050KTL	BNT060KTL
PV input					
P _{pv} Max(W)	45000	54000	60000	75000	90000
V _{max} PV (Vdc) (absolute Max.)	1100	1100	1100	1100	1100
I _{sc} 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
AC Grid (output)					
Normal AC Voltage (V _{AC})	3P+N+PE/3P+PE 230/400				
Frequency (Hz)	50				
Normal AC Current (A)	43.5	52.2	58	72.5	87
Max. cont. output current (A)	48	60	65	80	96
Normal Power (W)	30000	36000	40000	50000	60000
Rated Apparent Power (VA)	30000	36000	40000	50000	60000
Max. cont. Power (W)	30000	36000	40000	50000	60000
Max. cont. Apparent Power (VA)	30000	36000	40000	50000	60000
Power factor(adjustable)	1.0(-0.8~ +0.8)				
Others					
Protective class	Class I				
Ingress protection (IP)	IP65				
Temperature (°C)	-25°C to +60°C (Derating 45°C)				
Inverter Isolation	Non-isolated				
Overvoltage category	OVC III (AC Main), OVC II (PV)				
Software version	DSP:V06 CPLD:V06 HMI:V06				

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