

Certificate of Conformity

Certificate Number: CN-PV-230409

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:	Grid-connected PV inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	BNT003KTA, BNT004KTA, BNT005KTA, BNT006KTA, BNT008KTA, BNT010KTA, BNT012KTA, BNT015KTA, BNT003KTL, BNT004KTL, BNT005KTL, BNT006KTL, BNT008KTL, BNT010KTL, BNT012KTL, BNT013KTL, BNT015KTL, BNT017KTL, BNT020KTL, BNT025KTL
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>:	230500900SHA-001

Additional information in Appendix.



Signature

Certification Manager: Qiao Qiao

Date: 20 July 2023



PRD N° 306B

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230409

Ratings & Principle Characteristics:

Specifications table				
Model	BNT003KTA	BNT004KTA	BNT005KTA	BNT006KTA
PV input				
P _{pv} Max(W)	5100	6000	7500	9000
V _{max} PV (Vdc) (absolute Max.)	750	750	750	750
I _{sc} PV (absolute Max.) (A)	25x 2	25x 2	25x 2	25x 2
Number MPP trackers	2	2	2	2
Number input strings	1/1	1/1	1/1	1/1
Max. PV input current (A)	15 x 2	15 x 2	15 x 2	15 x 2
MPPT voltage range (Vdc)	150-600	150-600	150-600	150-600
Vdc range @ full power (Vdc)	220-600	220-600	220-600	220-600
AC Grid (output)				
Normal AC Voltage (VAC)	3P+PE/3P 133/230			
Frequency (Hz)	50			
Normal AC Current (A)	7.6	10.1	12.6	15.1
Max. cont. output current (A)	10.5	13.5	17.0	21.5
Normal Power (W)	3000	4000	5000	6000
Rated Apparent Power (VA)	3000	4000	5000	6000
Max. cont. Power (W)	3000	4000	5000	6000
Max. cont. Apparent Power (VA)	3000	4000	5000	6000
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			
Inverter Isolation	Non-isolated			
Oversvoltage 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	BNT008KTA	BNT010KTA	BNT012KTA	BNT015KTA
PV input				
P _{pv} Max(W)	12000	15000	18000	22500
V _{max} PV (Vdc) (absolute Max.)	750	750	750	750
I _{sc} PV (absolute Max.) (A)	30+48	48 x 2	48 x 2	48 x2
Number MPP trackers	2	2	2	2
Number input strings	1/2	2/2	2/2	2/2
Max. PV input current (A)	20+32	32x 2	32x 2	32x 2
MPPT voltage range (Vdc)	150-600	150-600	150-600	150-600
Vdc range @ full power (Vdc)	200-600	200-600	250-600	300-600
AC Grid (output)				
Normal AC Voltage (VAC)	3P+PE/3P 133/230			
Frequency (Hz)	50			
Normal AC Current (A)	20.1	25.1	30.1	37.6
Max. cont. output current (A)	27	30	32	40
Normal Power (W)	8000	10000	12000	15000
Rated Apparent Power (VA)	8000	10000	12000	15000
Max. cont. Power (W)	8000	10000	12000	15000
Max. cont. Apparent Power (VA)	8000	10000	12000	15000
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			
Inverter Isolation	Non-isolated			
Oversvoltage 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	BNT003KTL	BNT004KTL	BNT005KTL	BNT006KTL
PV input				
P _{pv} Max(W)	5100	6000	7500	9000
V _{max} PV (Vdc) (absolute Max.)	1100	1100	1100	1100
I _{sc} PV (absolute Max.) (A)	25 x 2	25 x 2	25 x 2	25 x 2
Number MPP trackers	2	2	2	2
Number input strings	1/1	1/1	1/1	1/1
Max. PV input current (A)	15 x 2	15 x 2	15 x 2	15 x 2
MPPT voltage range (Vdc)	150-1000	150-1000	150-1000	150-1000
Vdc range @ full power (Vdc)	200-850	200-850	200-850	250-850
AC Grid (output)				
Normal AC Voltage (VAC)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Normal AC Current (A)	4.4	5.8	7.3	8.7
Max. cont. output current (A)	5.3	7	8.5	10.5
Normal Power (W)	3000	4000	5000	6000
Rated Apparent Power (VA)	3000	4000	5000	6000
Max. cont. Power (W)	3000	4000	5000	6000
Max. cont. Apparent Power (VA)	3000	4000	5000	6000
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			
Oversvoltage 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	BNT008KTL	BNT010KTL	BNT012KTL	BNT013KTL
PV input				
P _{pv} Max(W)	12000	15000	18000	19500
V _{max} PV (Vdc) (absolute Max.)	1100	1100	1100	1100
I _{sc} PV (absolute Max.) (A)	25 x 2	25 x 2	25 x 2	25 x 2
Number MPP trackers	2	2	2	2
Number input strings	1/1	1/1	1/1	1/1
Max. PV input current (A)	15 x 2	15 x 2	15 x 2	15 x 2
MPPT voltage range (Vdc)	150-1000	150-1000	150-1000	150-1000
Vdc range @ full power (Vdc)	300-850	500-850	500-850	500-850
AC Grid (output)				
Normal AC Voltage (VAC)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Normal AC Current (A)	11.6	14.5	17.4	18.9
Max. cont. output current (A)	13.5	17	21.5	22
Normal Power (W)	8000	10000	12000	13000
Rated Apparent Power (VA)	8000	10000	12000	13000
Max. cont. Power (W)	8000	10000	12000	13000
Max. cont. Apparent Power (VA)	8000	10000	12000	13000
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			
Overtoltage category	OVC III (AC Main), OVC II (PV)			
Software version	DSP:V06 CPLD:V06 HMI:V06			

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Ratings & Principle Characteristics:

Model	Specifications table			
	BNT015KTL	BNT017KTL	BNT020KTL	BNT025KTL
PV input				
P _{pv} Max(W)	22500	25500	30000	37500
V _{max} PV (Vdc) (absolute Max.)	1100	1100	1100	1100
I _{sc} PV (absolute Max.) (A)	30 + 48	48 x 2	48 x 2	48 x 2
Number MPP trackers	2	2	2	2
Number input strings	1/2	2/2	2/2	2/2
Max. PV input current (A)	20 + 32	32 x 2	32 x 2	32 x 2
MPPT voltage range (Vdc)	150-1000	150-1000	150-1000	150-1000
Vdc range @ full power (Vdc)	500-850	500-850	500-850	500-850
AC Grid (output)				
Normal AC Voltage (VAC)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Normal AC Current (A)	21.8	24.7	29	36.3
Max. cont. output current (A)	27	30	32	40
Normal Power (W)	15000	17000	20000	25000
Rated Apparent Power (VA)	15000	17000	20000	25000
Max. cont. Power (W)	15000	17000	20000	25000
Max. cont. Apparent Power (VA)	15000	17000	20000	25000
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			
Oversoltage category	OVC III (AC Main), OVC II (PV)			
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