

Certificate of Conformity

Certificate Number: CN-PV-230621

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:	Hybrid Inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	AF1K-SL-1, AF1.5K-SL-1, AF2K-SL-1, AF2.5K-SL-1, AF3K-SL-1, AF3.6K-SL-1, AF3K-SL, AF3.6K-SL, AF4K-SL, AF4.6K-SL, AF5K-SL, AF5.5K-SL, AF6K-SL, AF4K-SLP, AF4.6K-SLP, AF5K-SLP, AF5.5K-SLP, AF6K-SLP
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>:	2308A0582SHA-001

Additional information in Appendix.

Signature 

Certification Manager: Qiao Qiao
Date: 15 November 2023



PRD N° 306B

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230621

Ratings & Principle Characteristics:

Specifications table					
Model	AF1K-SL-1	AF1.5K-SL-1	AF2K-SL-1	AF2.5K-SL-1	AF3K-SL-1
Input					
Ppv Max (W)	1500	2300	3000	3800	4500
Vmax PV (V)	550	550	550	550	550
Isc PV (absolute Max.) (A)	26	26	26	26	26
Number of MPP trackers	1	1	1	1	1
Number of input strings	1	1	1	1	1
Max. PV input range (A)	18.5	18.5	18.5	18.5	18.5
MPPT Voltage Range (V)	80-500	80-500	80-500	80-500	80-500
Vdc range @ full power (V)	80-500	90-500	120-500	150-500	170-500
Battery (input and output)					
Battery type	Li-ion / lead acid etc.				
Battery Nominal Voltage (V)	51.2				
Battery Voltage Range (V)	40-60				
Max. Charge/Discharge Current (A)	25	40	50	63	80
Max. Charge/Discharge Power (W)	1000	1500	2000	2500	3000
AC Grid (input and output)					
Nominal Voltage (V)	L/N/PE. 230Vac				
Nominal Frequency (Hz)	50				
Max. continuous Input/output Current (A)	5	7	10	12	14
Nominal Power (W)	1000	1500	2000	2500	3000
Max. Power (W)	1000	1500	2000	2500	3000
Max. apparent Power (VA)	1000	1500	2000	2500	3000
Power Factor	1(-0.8~+0.8 adjustable)				
AC Load output					
Nominal Output Voltage (V)	L/N/PE. 230Vac				
Nominal Frequency (Hz)	50				
Max. continuous Input/output Current (A)	5	7	10	12	14
Nominal Output Power(W)	1000	1500	2000	2500	3000
Max. Output Power (W)	1000	1500	2000	2500	3000
Max. apparent Power (VA)	1000	1500	2000	2500	3000
Power Factor	1				
others					
Ingress protection (IP)	IP65				
Temperature (°C)	-25°C to +60°C (Derating45°C)				
Inverter Isolation	Non-isolated				
Firmware Version	1.01				

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This is an Appendix to Certificate of Conformity Number: CN-PV-230621

Ratings & Principle Characteristics:

Specifications table					
Model	AF3.6K-SL-1	AF3K-SL	AF3.6K-SL	AF4K-SL	AF4.6K-SL
Input					
Ppv Max (W)	5400	4500	5400	6000	6900
Vmax PV (V)	550	550	550	550	550
Isc PV (absolute Max.) (A)	26	26 x 2	26 x 2	26 x 2	26 x 2
Number of MPP trackers	1	2	2	2	2
Number of input strings	1	1/1	1/1	1/1	1/1
Max. PV input range (A)	18.5	18.5 x 2	18.5 x 2	18.5 x 2	18.5 x 2
MPPT Voltage Range (V)	80-500	80-500	80-500	80-500	80-500
Vdc range @ full power (V)	210-500	90-500	110-500	120-500	130-500
Battery (input and output)					
Battery type	Li-ion / lead acid etc.				
Battery Nominal Voltage (V)	51.2				
Battery Voltage Range (V)	40-60				
Max. Charge/Discharge Current (A)	80	80	80	80	80
Max. Charge/Discharge Power (W)	3600	3000	3600	4000	4600
AC Grid (input and output)					
Nominal Voltage (V)	L/N/PE. 230Vac				
Nominal Frequency (Hz)	50				
Max. continuous Input/output Current (A)	17	14	17	19	22
Nominal Power (W)	3600	3000	3600	4000	4600
Max. Power (W)	3600	3000	3600	4000	4600
Max. apparent Power (VA)	3600	3000	3600	4000	4600
Power Factor	1(-0.8~+0.8 adjustable)				
AC Load output					
Nominal Output Voltage (V)	L/N/PE. 230Vac				
Nominal Frequency (Hz)	50				
Max. continuous Input/output Current (A)	17	14	17	19	22
Nominal Output Power(W)	3600	3000	3600	4000	4600
Max. Output Power (W)	3600	3000	3600	4000	4600
Max. apparent Power (VA)	3600	3000	3600	4000	4600
Power Factor	1				
others					
Ingress protection (IP)	IP65				
Temperature (°C)	-25°C to +60°C (Derating45°C)				
Inverter Isolation	Non-isolated				
Firmware Version	1.01				

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Ratings & Principle Characteristics:

Specifications table					
Model	AF5K-SL	AF5.5K-SL	AF6K-SL		
Input					
Ppv Max (W)	7500	8300	9000		
Vmax PV (V)	550	550	550		
Isc PV (absolute Max.) (A)	26 x 2	26 x 2	26 x 2		
Number of MPP trackers	2	2	2		
Number of input strings	1/1	1/1	1/1		
Max. PV input range (A)	18.5 x 2	18.5 x 2	18.5 x 2		
MPPT Voltage Range (V)	80-500	80-500	80-500		
Vdc range @ full power (V)	150-500	160-500	170-500		
Battery (input and output)					
Battery type	Li-ion / lead acid etc.				
Battery Nominal Voltage (V)	51.2				
Battery Voltage Range (V)	40-60				
Max. Charge/Discharge Current (A)	80	80	80		
Max. Charge/Discharge Power (W)	4800	4800	4800		
AC Grid (input and output)					
Nominal Voltage (V)	L/N/PE. 230Vac				
Nominal Frequency (Hz)	50				
Max. continuous Input/output Current (A)	23	26	28		
Nominal Power (W)	5000	5500	6000		
Max. Power (W)	5000	5500	6000		
Max. apparent Power (VA)	5000	5500	6000		
Power Factor	1(-0.8~+0.8 adjustable)				
AC Load output					
Nominal Output Voltage (V)	L/N/PE. 230Vac				
Nominal Frequency (Hz)	50				
Max. continuous Input/output Current (A)	23	26	28		
Nominal Output Power(W)	5000	5500	6000		
Max. Output Power (W)	5000	5500	6000		
Max. apparent Power (VA)	5000	5500	6000		
Power Factor	1				
others					
Ingress protection (IP)	IP65				
Temperature (°C)	-25°C to +60°C (Derating45°C)				
Inverter Isolation	Non-isolated				
Firmware Version	1.01				

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Ratings & Principle Characteristics:

Specifications table					
Model	AF4K-SLP	AF4.6K-SLP	AF5K-SLP	AF5.5K-SLP	AF6K-SLP
PV input					
P _{pv} Max(W)	6000	6900	7500	8300	9000
V _{max} PV (Vdc) (absolute Max.)	550	550	550	550	550
I _{sc} PV (absolute Max.) (A)	26 x 2	26 x 2	26 x 2	26 x 2	26 x 2
Number MPP trackers	2	2	2	2	2
Number input strings	1/1	1/1	1/1	1/1	1/1
Max. PV input current / strings (A)	18.5 x 2	18.5 x 2	18.5 x 2	18.5 x 2	18.5 x 2
MPPT voltage range (Vdc)	80-500	80-500	80-500	80-500	80-500
V _{dc} range @ full power (Vdc)	120-500	130-500	150-500	160-500	170-500
Battery (charge/discharge)					
Battery type	Li-ion/Lead-acid				
Battery Normal Voltage (Range) (Vdc)	51.2V (40-60V)				
Max charge/discharge Current(A)	120	120	120	120	120
Max charge/discharge Power(W)	4000	4600	5000	5500	6000
AC Grid (input and output)					
Normal AC Voltage (VAC)	L/N/PE, 230Vac				
Frequency (Hz)	50				
Normal AC Current (A)	17.4	20	21.8	24	26.1
Max. cont. input/output current (A)	19	22	23	26	28
Rated Power(W)	4000	4600	5000	5500	6000
Rated Apparent Power (VA)	4000	4600	5000	5500	6000
Max. cont. Power (W)	4000	4600	5000	5500	6000
Max. cont. Apparent Power (VA)	4000	4600	5000	5500	6000
Power factor (adjustable)	1.0(-0.8~ +0.8)				
AC Load output					
Normal Voltage (VAC)	L/N/PE, 230Vac				
Frequency (Hz)	50				
Nominal Current(A)	17.4	20	21.8	24	26.1
Max. cont. current (A)	19	22	23	26	28
Max. cont. Power (W)	4000	4600	5000	5500	6000
Max. cont. Apparent Power (VA)	4000	4600	5000	5500	6000
Power factor	1.0				
Others					
Ingress protection (IP)	IP65				
Protective class	Class I				
Temperature (°C)	-25°C to +60°C (Derating 45°C)				
Inverter Isolation	Non-isolated (PV - AC - BAT)				
Overvoltage category	OVC III (AC Main), OVC II (PV)				
Firmware	1.01				

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