

Certificate of Conformity

Certificate Number: CN-PVES-230619R1

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:	Hybrid Inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	AF*-SL-1(*=1K, 1.5K, 2K, 2.5K, 3K, 3.6K) AF*-SL(*=3K, 3.6K, 4K, 4.6K, 5K, 5.5K, 6K) AF*-SLP(*=4K, 4.6K, 5K, 5.5K, 6K) AF*-ASL-1(*=1K, 1.5K, 2K, 2.5K, 3K, 3.6K) AF*-ASL(*=3K, 3.6K, 4K, 4.6K, 5K, 5.5K, 6K)
Brand Name<s>:	Afore
Product Complies with:	C10/11: ed.2.2, 15 Mar 2021
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>:	2408B2668SHA-001

Additional information in Appendix.

Replaces certificate CN-PV-230619 dated 15 November 2023

Signature



Certification Manager: Qiao Qiao

Date: 05 November 2024



PRD N° 306B

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-230619R1

Ratings & Principal Characteristics:

Specifications table					
Model	AF1K-SL-1	AF1.5K-SL-1	AF2K-SL-1	AF2.5K-SL-1	AF3K-SL-1
	AF1K-ASL-1	AF1.5K-ASL-1	AF2K-ASL-1	AF2.5K-ASL-1	AF3K-ASL-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 (charge/discharge)					
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. con 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. cont. 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/IP66				
Temperature (°C)	-25°C to +60°C (Derating 45°C)				
Inverter Isolation	Non-isolated (PV - AC - BAT)				
Firmware version	1.01				

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Ratings & Principal Characteristics:

Specifications table				
Model	AF3.6K-SL-1	AF3K-SL	AF3.6K-SL	AF4K-SL
	AF3.6K-ASL-1	AF3K-ASL	AF3.6K-ASL	
Input				
Ppv Max (W)	5400	4500	5400	6000
Vmax PV (V)	550	550	550	550
Isc PV (absolute Max.) (A)	26	26 x 2	26 x 2	26 x 2
Number of MPP trackers	1	2	2	2
Number of input strings	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
MPPT Voltage Range (V)	80-500	80-500	80-500	80-500
Vdc range @ full power (V)	210-500	90-500	110-500	120-500
Battery (charge/discharge)				
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
Max. Charge/Discharge Power (W)	3600	3000	3600	4000
AC Grid (input and output)				
Nominal Voltage (V)	L/N/PE, 230Vac			
Nominal Frequency (Hz)	50			
Max. con Current (A)	17	14	17	19
Nominal Power (W)	3600	3000	3600	4000
Max. Power (W)	3600	3000	3600	4000
Max. apparent Power (VA)	3600	3000	3600	4000
Power Factor	1(-0.8~+0.8 adjustable)			
AC Load output				
Nominal Output Voltage (V)	L/N/PE, 230Vac			
Nominal Frequency (Hz)	50			
Max. cont. current (A)	17	14	17	19
Nominal Output Power(W)	3600	3000	3600	4000
Max. Output Power (W)	3600	3000	3600	4000
Max. apparent Power (VA)	3600	3000	3600	4000
Power Factor	1			
Others				
Ingress protection (IP)	IP65/IP66			
Temperature (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated (PV - AC - BAT)			
Firmware version	1.01			

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APPENDIX: Certificate of Conformity

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Ratings & Principal Characteristics:

Specifications table				
Model	AF4.6K-SL	AF5K-SL	AF5.5K-SL	AF6K-SL
Input				
Ppv Max (W)	6900	7500	8300	9000
Vmax PV (V)	550	550	550	550
Isc PV (absolute Max.) (A)	26 x 2	26 x 2	26 x 2	26 x 2
Number of MPP trackers	2	2	2	2
Number of input strings	1/1	1/1	1/1	1/1
Max. PV input range (A)	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
Vdc range @ full power (V)	130-500	150-500	160-500	170-500
Battery (charge/discharge)				
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
Max. Charge/Discharge Power (W)	4600	4800	4800	4800
AC Grid (input and output)				
Nominal Voltage (V)	L/N/PE, 230Vac			
Nominal Frequency (Hz)	50			
Max. con Current (A)	22	23	26	26
Nominal Power (W)	4600	5000	5500	6000
Max. Power (W)	4600	5000	5500	6000
Max. apparent Power (VA)	4600	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. cont. current (A)	22	23	26	28
Nominal Output Power(W)	4600	5000	5500	6000
Max. Output Power (W)	4600	5000	5500	6000
Max. apparent Power (VA)	4600	5000	5500	6000
Power Factor	1			
others				
Ingress protection (IP)	IP65			
Temperature (°C)	-25°C to +60°C (Derating45°C)			
Inverter Isolation	Non-isolated (PV - AC - BAT)			
Firmware version	1.01			

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Ratings & Principal Characteristics:

Model Model	Specifications table				
	AF4K-SLP	AF4.6K-SLP	AF5K-SLP	AF5.5K-SLP	AF6K-SLP
	AF4K-ASL	AF4.6K-ASL	AF5K-ASL	AF5.5K-ASL	AF6K-ASL
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
Vdc 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/ IP66				
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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