

Test Verification of Conformity

Verification Number: 2501B1505SHA-V1

On the basis of the tests undertaken, the sample<s> of the below product has been tested by an accredited 3rd party laboratory in accordance to the referenced specification<s>/standard<s> at the time the tests were carried out. This verification is part of the full test report<s> and should be read in conjunction with it <them>.

This document can be used in support of a claim in meeting relevant < EU Low Voltage Directive (LVD) (2014/35/EU)>legislation and mandatory Conformity Marking. And in accordance with EU / UK law, the claim is the sole obligation of the Manufacturer/ Importer.

Applicant Name & Address:	Afore New Energy Technology (Shanghai) Co., Ltd. Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China. 201112
Product Description:	Hybrid inverter
Ratings & Principle Characteristics:	See Appendix(Specifications table)
Models/Type References:	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 Names:	Afore
Specification<s>/Standards:	IEC 63027:2023
Verification Issuing Office Name & Address:	Intertek Testing Services (Shanghai FTZ) Co., Ltd. Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
Date of Tests:	2024-12-09 to 2025-03-03
Test Report Number(s):	2501B1505SHA-001
Additional information in Appendix.	

Signature



Name: Max Jin

Position: General Manager

Date: 2025-03-04

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2501B1505SHA-V1

Manufacture Name & Address: Same as applicant

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
PV input					
P _{pv} Max(W)	1500	2300	3000	3800	4500
V _{max} PV (Vdc) (absolute Max.)	550	550	550	550	550
I _{sc} PV (absolute Max.) (A)	26	26	26	26	26
Number MPP trackers	1	1	1	1	1
Number input strings	1	1	1	1	1
Max. PV input current / strings (A)	18.5	18.5	18.5	18.5	18.5
MPPT voltage range (Vdc)	80-500	80-500	80-500	80-500	80-500
Vdc range @ full power (Vdc)	80-500	90-500	120-500	150-500	170-500
Battery (charge/discharge)					
Battery type	Li-ion/Lead-acid etc.				
Battery Normal Voltage (Range) (Vdc)	51.2V (40-60V)				
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)					
Normal AC Voltage (VAC)	L/N/PE, 220Vac, 230Vac				
Frequency (Hz)	50 / 60				
Normal AC Current (A)	4.4	6.6	8.7	10.9	13.1
Max. cont. input/output current (A)	5	7	10	12	14
Rated Power(W)	1000	1500	2000	2500	3000
Rated Apparent Power (VA)	1000	1500	2000	2500	3000
Max. cont. Power (W)	1000	1500	2000	2500	3000
Max. cont. Apparent Power (VA)	1000	1500	2000	2500	3000
Power factor (adjustable)	1.0(-0.8~ +0.8)				
AC Load output (stand-alone)					
Normal Voltage (VAC)	L/N/PE, 220Vac, 230Vac				
Frequency (Hz)	50 / 60				
Nominal Current(A)	4.4	6.6	8.7	10.9	13.1
Max. cont. current (A)	5	7	10	12	14
Max. cont. Power (W)	1000	1500	2000	2500	3000
Max. cont. Apparent Power (VA)	1000	1500	2000	2500	3000
Power factor	1.0				
Others					
PV DC AFCI	F-I-AFPE-1-1-1				
Ingress protection (IP)	IP65 / IP66				
Protective class	Class I				
Temperature (°C)	-25°C to +60°C				
Inverter Isolation	Non-isolated (PV - AC - BAT)				
Overtoltage category	OVC III (AC Main), OVC II (PV)				

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2501B1505SHA-V1

Specifications table				
Model	AF3.6K-SL-1	AF3K-SL	AF3.6K-SL	AF4K-SL
	AF3.6K-ASL-1	AF3K-ASL	AF3.6K-ASL	
PV input				
P _{pv} Max(W)	5400	4500	5400	6000
V _{max} PV (Vdc) (absolute Max.)	550	550	550	550
I _{sc} PV (absolute Max.) (A)	26	26 x 2	26 x 2	26 x 2
Number MPP trackers	1	2	2	2
Number input strings	1	1/1	1/1	1/1
Max. PV input current / strings (A)	18.5	18.5 x 2	18.5 x 2	18.5 x 2
MPPT voltage range (Vdc)	80-500	80-500	80-500	80-500
Vdc range @ full power (Vdc)	210-500	90-500	110-500	120-500
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid etc.			
Battery Normal Voltage (Range) (Vdc)	51.2V (40-60V)			
Max charge/discharge Current(A)	80	80	80	80
Max charge/discharge Power(W)	3600	3000	3600	4000
AC Grid (input and output)				
Normal AC Voltage (VAC)	L/N/PE, 220Vac, 230Vac			
Frequency (Hz)	50 / 60			
Normal AC Current (A)	15.7	13.1	15.7	17.4
Max. cont. input/output current (A)	17	14	17	19
Rated Power(W)	3600	3000	3600	4000
Rated Apparent Power (VA)	3600	3000	3600	4000
Max. cont. Power (W)	3600	3000	3600	4000
Max. cont. Apparent Power (VA)	3600	3000	3600	4000
Power factor (adjustable)	1.0(-0.8~ +0.8)			
AC Load output (stand-alone)				
Normal Voltage (VAC)	L/N/PE, 220Vac, 230Vac			
Frequency (Hz)	50 / 60			
Nominal Current(A)	15.7	13.1	15.7	17.4
Max. cont. current (A)	17	14	17	19
Max. cont. Power (W)	3600	3000	3600	4000
Max. cont. Apparent Power (VA)	3600	3000	3600	4000
Power factor	1.0			
Others				
PV DC AFCI	F-I-AFPE-1-1-1	F-I-AFPE-1-2-1		
Ingress protection (IP)	IP65 / IP66			
Protective class	Class I			
Temperature (°C)	-25°C to +60°C			
Inverter Isolation	Non-isolated (PV - AC - BAT)			
Overvoltage category	OVC III (AC Main), OVC II (PV)			

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2501B1505SHA-V1

Specifications table				
Model	AF4.6K-SL	AF5K-SL	AF5.5K-SL	AF6K-SL
PV input				
P _{pv} Max(W)	6900	7500	8300	9000
V _{max} PV (Vdc) (absolute Max.)	550	550	550	550
I _{sc} PV (absolute Max.) (A)	26 x 2	26 x 2	26 x 2	26 x 2
Number MPP trackers	2	2	2	2
Number input strings	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
MPPT voltage range (Vdc)	80-500	80-500	80-500	80-500
Vdc range @ full power (Vdc)	130-500	150-500	160-500	170-500
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid etc.			
Battery Normal Voltage (Range) (Vdc)	51.2V (40-60V)			
Max charge/discharge Current(A)	80	80	80	80
Max charge/discharge Power(W)	4600	4800	4800	4800
AC Grid (input and output)				
Normal AC Voltage (VAC)	L/N/PE, 220Vac, 230Vac			
Frequency (Hz)	50 / 60			
Normal AC Current (A)	20	21.8	24	26.1
Max. cont. input/output current (A)	22	23	26	28
Rated Power(W)	4600	5000	5500	6000
Rated Apparent Power (VA)	4600	5000	5500	6000
Max. cont. Power (W)	4600	5000	5500	6000
Max. cont. Apparent Power (VA)	4600	5000	5500	6000
Power factor (adjustable)	1.0(-0.8~ +0.8)			
AC Load output (stand-alone)				
Normal Voltage (VAC)	L/N/PE, 220Vac, 230Vac			
Frequency (Hz)	50 / 60			
Nominal Current(A)	20	21.8	24	26.1
Max. cont. current (A)	22	23	26	28
Max. cont. Power (W)	4600	5000	5500	6000
Max. cont. Apparent Power (VA)	4600	5000	5500	6000
Power factor	1.0			
Others				
PV DC AFCI	F-I-AFPE-1-2-1			
Ingress protection (IP)	IP65			
Protective class	Class I			
Temperature (°C)	-25°C to +60°C			
Inverter Isolation	Non-isolated (PV - AC - BAT)			
Overvoltage category	OVC III (AC Main), OVC II (PV)			

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2501B1505SHA-V1

Specifications table					
Model	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
Vmax PV (Vdc) (absolute Max.)	550	550	550	550	550
Isc 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 etc.				
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, 220Vac, 230Vac				
Frequency (Hz)	50 / 60				
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 (stand-alone)					
Normal Voltage (VAC)	L/N/PE, 220Vac, 230Vac				
Frequency (Hz)	50 / 60				
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				

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Specifications table					
Model	AF4K-SLP	AF4.6K-SLP	AF5K-SLP	AF5.5K-SLP	AF6K-SLP
	AF4K-ASL	AF4.6K-ASL	AF5K-ASL	AF5.5K-ASL	AF6K-ASL
Others					
PV DC AFCI	F-I-AFPE-1-2-1				
Ingress protection (IP)	IP65 / IP66				
Protective class	Class I				
Temperature (°C)	-25°C to +60°C				
Inverter Isolation	Non-isolated (PV - AC - BAT)				
Overtoltage category	OVC III (AC Main), OVC II (PV)				

Signature



Name: Max Jin

Position: General Manager

Date: 2025-03-04

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