

# Test Verification of Conformity

Verification Number: 2509B0693SHA-V2

On the basis of the tests undertaken, the sample<s> of the below product has been tested by an a 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 & Principal See Appendix(Specifications table)

Characteristics:

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\*-SL-0 (\*= 1K, 1.5K, 2K, 2.5K, 3K, 3.6K, 4K, 4.6K, 5K, 5.5K, 6K)

Brand Names: Afore

Specification<s>/Standards: IEC/EN 62109-1:2010 IEC/EN 62109-2:2011

EN 62477-1:2012+A11:2014+A1:2017+A12:2021

Verification Issuing Office Name Intertek Testing Services (Shanghai FTZ) Co., Ltd.

interies resting of vices (Shanghai 172) Co., Etc.

& Address: Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China

Date of Tests: 2024-04-17 to 2024-05-14, 2025-09-03 to 2025-10-13

Test Report Number(s): 2509B0693SHA-004/005/006

Additional information in Appendix.

Signature

Name: Max Jin

**Position: General Manager** 

Date: 2025-10-16



This is an Appendix to Test Verification of Conformity Number: 2509B0693SHA-V2

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	
PV input						
P pv Max(W)	2000	3000	4000	5000	6000	
Vmax PV (Vdc) (absolute Max.)	600	600	600	600	600	
Isc PV (absolute Max.) (A)	26	26	26	26	26	
Number MPP trackers	1	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)	60-550	60-550	60-550	60-550	60-550	
Battery (charge/discharge)						
Battery type			ion/Lead-acid e			
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, 230Va	C		
Frequency (Hz)		A	50			
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)	VA.		L/N/PE, 230Va	С		
Frequency (Hz)	100		50		T	
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						
Ingress protection (IP)	IP66					
Protective class	Class I					
Temperature (°C)	-25°C to +60°C (Derating45°C)					
Inverter Isolation	Non-isolated (PV - AC - BAT)					
Overvoltage category	OVC III (AC Main), OVC II (DC)					
Firmware	1.01					



This is an Appendix to Test Verification of Conformity Number: 2509B0693SHA-V2

Specifications table						
Model	AF3.6K-SL-1	AF3K-SL	AF3.6K-SL	AF4K-SL		
PV input						
P pv Max(W)	7200	6000	7200	8000		
Vmax PV (Vdc) (absolute Max.)	600	600	600	600		
Isc 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)	60-550	60-550	60-550	60-550		
Battery (charge/discharge)						
Battery type		Li-ion/Lea	id-acid etc.			
Battery Normal Voltage (Range) (Vdc)	7.0		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,	, 230Vac			
Frequency (Hz)		5	50			
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)			, 230Vac			
Frequency (Hz)		5	50			
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			.0			
Others	~ a					
Ingress protection (IP)	IP66					
Protective class	Class I					
Temperature (°C)	-25°C to +60°C (Derating45°C)					
Inverter Isolation	Non-isolated (PV - AC - BAT)					
Overvoltage category	OVC III (AC Main), OVC II (DC)					
Firmware	1.01					



This is an Appendix to Test Verification of Conformity Number: 2509B0693SHA-V2

Specifications table						
Model	AF4.6K-SL AF5K-SL AF5.5K-SL AF6					
PV input						
P pv Max(W)	9200	10000	11000	12000		
Vmax PV (Vdc) (absolute Max.)	600	600	600	600		
Isc 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)	60-550	60-550	60-550	60-550		
Battery (charge/discharge)						
Battery type		Li-ion/Lea	ad-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	, 230Vac			
Frequency (Hz)			50			
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	, 230Vac			
Frequency (Hz)			50			
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						
Ingress protection (IP)	IP66					
Protective class	Class I					
Temperature (°C)	-25°C to +60°C (Derating45°C)					
Inverter Isolation	Non-isolated (PV - AC - BAT)					
Overvoltage category	OVC III (AC Main), OVC II (DC)					
Firmware	1.01					



This is an Appendix to Test Verification of Conformity Number: 2509B0693SHA-V2

Specifications table						
Model	AF4K-SLP	AF4.6K- SLP	AF5K-SLP	AF5.5K- SLP	AF6K-SLP	
PV input						
P pv Max(W)	8000	9200	10000	11000	12000	
Vmax PV (Vdc) (absolute Max.)	600	600	600	600	600	
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)	60-550	60-550	60-550	60-550	60-550	
Battery (charge/discharge)						
Battery type	7	Li-	ion/Lead-acid e	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, 230Va	С		
Frequency (Hz)			50	- 1		
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)			_/N/PE, 230Va	С		
Frequency (Hz)			50	40		
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	9	1000				
Ingress protection (IP)	IP66					
Protective class	Class I					
Temperature (°C)	-25°C to +60°C (Derating45°C)					
Inverter Isolation	Non-isolated (PV - AC - BAT)					
Overvoltage category	OVC III (AC Main), OVC II (DC)					
Firmware	1.01					



This is an Appendix to Test Verification of Conformity Number: 2509B0693SHA-V2

Specifications table						
Model	AF1K-SL-0 AF1.5K-SL-0 AF2K-SL-0 AF2.5K-SL-0					
Battery (charge/discharge)						
Battery type	Page 1	Li-ion/Lead	d-acid ect.			
Battery Normal Voltage (Range) (Vdc)		51.2V (4	10-60V)			
Max charge/discharge Current(A)	25	40	50	63		
Max charge/discharge Power(W)	1000	1500	2000	2500		
AC Grid (input and output)						
Normal AC Voltage (VAC)	07	L/N/PE,	230Vac			
Frequency (Hz)	/	5	0			
Normal AC Current (A)	4.4	6.6	8.7	10.9		
Max. cont. input/output current (A)	5	7	10	12		
Normal Power (W)	1000	1500	2000	2500		
Rated Apparent Power (VA)	1000	1500	2000	2500		
Max. cont. input/output Power (W)	1000	1500	2000	2500		
Max. cont. Apparent Power (VA)	1000	1500	2000	2500		
Power factor(adjustable)	-	1.0( -0.8	3~ +0.8)	7		
AC Load output (stand-alone)						
Normal Voltage (VAC)		L/N/PE,		9		
Frequency (Hz)		5	•			
Nominal Current (A)	4.4	6.6	8.7	10.9		
Max. cont. current (A)	5	7	10	12		
Max. cont. Power (W)	1000	1500	2000	2500		
Max. cont. Apparent Power (VA)	1000	1500	2000	2500		
Power factor		1.	0			
Others						
Ingress protection (IP)	IP66					
Protective class	Class I					
Temperature (°C)	-25°C to +60°C (Derating45°C)					
Inverter Isolation	Non-isolated (AC-BAT)					
Overvoltage category	OVC III (AC Main), OVC II (DC)					
Firmware	1.01					



This is an Appendix to Test Verification of Conformity Number: 2509B0693SHA-V2

Specifications table						
Model	AF3K-SL-0 AF3.6K-SL-0 AF4K-SL-0 AF4.6K-SL-0					
Battery (charge/discharge)						
Battery type		Li-ion/Lead	d-acid etc.			
Battery Normal Voltage (Range) (Vdc)		51.2V (4	40-60V)			
Max charge/discharge Current(A)	80	80	120	120		
Max charge/discharge Power(W)	3000	3600	4000	4600		
AC Grid (input and output)						
Normal AC Voltage (VAC)		L/N/PE,	230Vac			
Frequency (Hz)	//	5	0			
Normal AC Current (A)	13.1	15.7	17.4	20		
Max. cont. input/output current (A)	14	17	19	22		
Normal Power (W)	3000	3600	4000	4600		
Rated Apparent Power (VA)	3000	3600	4000	4600		
Max. cont. input/output Power (W)	3000	3600	4000	4600		
Max. cont. Apparent Power (VA)	3000	3600	4000	4600		
Power factor(adjustable)		1.0( -0.8	3~ +0.8)			
AC Load output (stand-alone)						
Normal Voltage (VAC)		L/N/PE,		7		
Frequency (Hz)		5				
Nominal Current (A)	13.1	15.7	17.4	20		
Max. cont. current (A)	14	17	19	22		
Max. cont. Power (W)	3000	3600	4000	4600		
Max. cont. Apparent Power (VA)	3000	3600	4000	4600		
Power factor		1.	.0			
Others						
Ingress protection (IP)	IP66					
Protective class	Class I					
Temperature (°C)	-25°C to +60°C (Derating45°C)					
Inverter Isolation	Non-isolated (AC-BAT)					
Overvoltage category	OVC III (AC Main), OVC II (DC)					
Firmware	1.01					



This is an Appendix to Test Verification of Conformity Number: 2509B0693SHA-V2

Specifications table						
Model	AF5K-SL-0 AF5.5K-SL-0 AF6K-SL-0					
Battery (charge/discharge)						
Battery type	70.00	Li-ion/Lead-acid etc.				
Battery Normal Voltage (Range) (Vdc)	0	51.2V (40-60V)				
Max charge/discharge Current(A)	120	120	120			
Max charge/discharge Power(W)	5000	5500	6000			
AC Grid (input and output)						
Normal AC Voltage (VAC)	W	L/N/PE,	230Vac			
Frequency (Hz)	/	5	0			
Normal AC Current (A)	21.8	24	26.1			
Max. cont. input/output current (A)	23	26	28			
Normal Power (W)	5000	5500	6000			
Rated Apparent Power (VA)	5000	5500	6000			
Max. cont. input/output Power (W)	5000	5500	6000			
Max. cont. Apparent Power (VA)	5000	5500	6000			
Power factor(adjustable)		1.0( -0.8	3~ +0.8)			
AC Load output (stand-alone)						
Normal Voltage (VAC)	L/N/PE, 230Vac					
Frequency (Hz)		5				
Nominal Current (A)	21.8	24	26.1			
Max. cont. current (A)	23	26	28			
Max. cont. Power (W)	5000	5500	6000			
Max. cont. Apparent Power (VA)	5000	5500	6000			
Power factor	100	1.	0			
Others						
Ingress protection (IP)	IP66					
Protective class	Class I					
Temperature (°C)	-25°C to +60°C (Derating45°C)					
Inverter Isolation	Non-isolated (AC-BAT)					
Overvoltage category	OVC III (AC Main), OVC II (DC)					
Firmware	1.01					

Signature

Name: Max Jin

**Position: General Manager** 

Coons

Date: 2025-10-16