

Test Verification of Conformity

Verification Number: 230900420SHA-V1

On the basis of the referenced test report(s), sample(s) tested of the below product have been found to comply with the standards harmonized with the directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it <them>.

Once compliance with all product relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested sample(s).

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 See Appendix

Characteristics:

Models/Type References: AF*-SL-0 (*= 1K, 1.5K, 2K, 2.5K, 3K, 3.6K, 4K, 4.6K, 5K, 5.5K, 6K)

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)

Brand Name: Afore

Relevant Standards/Directives: IEC 61683:1999

Name & Address:

Verification Issuing Office

Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China

ts: 2023-09-13 to 2024-03-25

Date of Tests: 2023-09-13 to 2024-0
Test Report Number(s): 230900420SHA-001

Signature

Name: Max Jin

Position: General Manager

Date: 2024-03-25



This is an Appendix to Test Verification of Conformity Number: 230900420SHA-V1

Ratings:

Ratings:						
	Specification	ns table AF1.5K-SL-0	AF2K-SL-0	ı		
Model	AF1K-SL-0	AF2.5K-SL-0				
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		
Max charge/discharge Power(W)	1000	1500	2000	2500		
AC Grid (input and output)						
Normal AC Voltage (VAC)	//	L/N/PE,	230Vac			
Frequency (Hz)	//	50	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)			
AC Load output		,	,			
Normal Voltage (VAC)		L/N/PE,	230Vac			
Frequency (Hz)		50	0			
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)	IP65					
Protective class		Clas	ss I			
Temperature ($^{\circ}$ C)	-25°C to +60°C					
Inverter Isolation		Non-isolated	d (AC-BAT)			
Overvoltage category		OVC III (A	AC Main)			



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Ratings:

	Specification	ns table					
Model	AF3K-SL-0 AF3.6K-SL-0 AF4K-SL-0 AF4.6K-SL-0						
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	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)	<i>y</i>	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	4600					
Rated Apparent Power (VA)	3000	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							
Normal Voltage (VAC)		L/N/PE,	230Vac	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)	IP65						
Protective class		Clas					
Temperature ($^{\circ}$ C)	-25°C to +60°C						
Inverter Isolation	W 0	Non-isolated	d (AC-BAT)				
Overvoltage category		OVC III (A	AC Main)				



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Ratings:

Specifications table						
Model	AF5K-SL-0 AF5.5K-SL-0 AF6K-SL-0					
Battery (charge/discharge)			<u>.</u>			
Battery type	Li-ion/Lead-acid etc.					
Battery Normal Voltage (Range) (Vdc)	51.2V (40-60V)					
Max charge/discharge Current(A)	120					
Max charge/discharge Power(W)	5000	5500	6000			
AC Grid (input and output)						
Normal AC Voltage (VAC)		L/N/PE,	230Vac			
Frequency (Hz)	<i>y</i>	50)			
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	~ +0.8)			
AC Load output						
Normal Voltage (VAC)		L/N/PE,				
Frequency (Hz)		50				
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	1.0					
Others						
Ingress protection (IP)	IP65					
Protective class		Clas				
Temperature ($^{\circ}$ C)		-25℃ to				
Inverter Isolation	V. U	Non-isolated				
Overvoltage category	OVC III (AC Main)					



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Ratings:

Ratings:								
Specifications table								
Model	AF1K-	AF1.5K-	AF2K-	AF2.5K-	AF3K-			
	SL-1	SL-1	SL-1	SL-1	SL-1			
PV input								
P pv Max(W)	1500	2300	3000	3800	4500			
Vmax PV (Vdc) (absolute Max.)	550	550	550	550	550			
Isc 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	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 e	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, 230Vac							
Frequency (Hz)			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								
Normal Voltage (VAC)			L/N/PE, 230Va	C				
Frequency (Hz)			50					
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)			IP65					
Protective class			Class I					
Temperature (°C)			-25℃ to +60℃					
Inverter Isolation		Non-iso	olated (PV - AC	: - BAT)				
Overvoltage category		OVC III	(AC Main), OV	C II (PV)				



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Ratings:

Specifications table							
Model	AF3.6K-SL-1	AF3K-SL	AF3.6K-SL	AF4K-SL			
PV input							
P pv Max(W)	5400	4500	5400	6000			
Vmax PV (Vdc) (absolute Max.)	550	550	550	550			
Isc PV (absolute Max.) (A)	26	26 x 2					
Number MPP trackers	///1 A	26 x 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/Lea	d-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	, 230Vac				
Frequency (Hz)	-	· ·	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							
Normal Voltage (VAC)		L/N/PE	, 230Vac				
Frequency (Hz)			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	1.0						
Others							
Ingress protection (IP)	IP65						
Protective class			ass I				
Temperature (°C)			o +60℃				
Inverter Isolation			PV - AC - BAT)				
Overvoltage category		OVC III (AC Ma	ain), OVC II (PV)				



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Ratings:

Specifications table							
Model	AF4.6K-SL	AF5K-SL	AF5.5K-SL	AF6K-SL			
PV input							
P pv Max(W)	6900	7500	8300	9000			
Vmax PV (Vdc) (absolute Max.)	550	550	550	550			
Isc PV (absolute Max.) (A)	26 x 2	26 x 2					
Number MPP trackers	2	26 x 2 2	26 x 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 (4	0-60V)				
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, 2	230Vac				
Frequency (Hz)	0	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							
Normal Voltage (VAC)		L/N/PE, 2					
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)	IP65						
Protective class	Class I						
Temperature ($^{\circ}$)	-25°C to +60°C						
Inverter Isolation		Non-isolated (P	V - AC - BAT)				
Overvoltage category		OVC III (AC Mair	n), OVC II (PV)				



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Ratings:

หลุยทธิร: Specifications table							
ΔΕ4.6K- ΔΕ5.5K-							
Model	AF4K-SLP	SLP	AF5K-SLP	SLP	AF6K-SLP		
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 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)	- 1		L/N/PE, 230Va				
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)	h. 1		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				



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Ratings:

Specifications table							
Model	AF4K-SLP	AF4.6K- SLP	AF5K-SLP	AF5.5K- SLP	AF6K-SLP		
Others							
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)						

Signature

Name: Max Jin

Position: General Manager

Date: 2024-03-25