

Test Verification of Conformity

Verification Number: 220700015SHA-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.

Build No.7, 333 Wanfang Road, Minhang District, Shanghai, China 201112

Product Description: Hybrid inverter / AC Coupled inverter

Ratings & Principle

Characteristics:

See Appendix

Models/Type References: AF1K-SL-0, AF1.5K-SL-0, AF2K-SL-0, AF2.5K-SL-0, AF3K-SL-0, AF3.6K-SL-0, AF4K-SL-0,

AF4.6K-SL-0, AF5K-SL-0, AF5.5K-SL-0, AF6K-SL-0

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

Brand Name: afore

Relevant Standards/Directives: EN IEC 61000-6-3:2021/IEC 61000-6-3:2020

EN IEC 61000-6-1:2019/IEC 61000-6-1:2016

EN IEC 61000-3-2:2019/IEC 61000-3-2:2018+A1:2020 EN 61000-3-3:2013+A1:2019/IEC 61000-3-3:2013+A1:2017

the EMC Directive 2014/30/EU

Verification Issuing Office

Name & Address:

Intertek Testing Services Shanghai

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

Date of Tests: 2022-08-03 to 2022-08-25

Test Report Number(s): 220700015SHA-001

Signature

Name: Max Jin

Position: General Manager

Date: 2022-12-01

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Intertek Page 1 of 13 GFT-OP-11b (02-April-2020)



APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 220700015SHA-V1

Specifications table					
Model	AF1K-	AF1.5K-	AF2K-	AF2.5K-	AF3K-
Wiodei	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
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)				202	
Battery type	7	Li-i	ion/Lead-acid e	etc.	
Battery Normal Voltage (Range) (Vdc)	h	1	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

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Intertek Page 2 of 13 GFT-OP-11b (02-April-2020)



Specifications table						
Model	AF1K-	AF1.5K-	AF2K-	AF2.5K-	AF3K-	
Widuei	SL-1	SL-1	SL-1	SL-1	SL-1	
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	3)		
AC Load output (stand alone)						
Normal Voltage (VAC)		L/N/	PE, 220Vac, 23	30Vac		
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	
Rated Apparent Power (VA)	1000	1500	2000	2500	3000	
Max. cont. Apparent Power (VA)	1000	1500	2000	2500	3000	
Power factor			1.0	1		
Others						
Ingress protection (IP)	-3	- 4	IP65			
Protective class	Class I					
Temperature (°C)	-25 $^{\circ}$ C to +60 $^{\circ}$ C (Derating 45 $^{\circ}$ C)					
Inverter Isolation	Non-isolated (PV - AC - BAT)					
Overvoltage category		OVC III	(AC Main), OV	/C II (PV)		
Firmware			V06			



Specifications table					
Model	AF3.6K-SL-1	AF3K-SL	AF3.6K-SL	AF4K-SL	
PV input				L	
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	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	- 0 0	Li-ion/Lea	d-acid etc.		
Battery Normal Voltage (Range) (Vdc)	- 0	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, 220	Vac, 230Vac		
Frequency (Hz)	2	50	/ 60		
Normal AC Current (A)	15.7	13.1	15.7	17.4	
Max. cont. input/output current (A)	17	14	17	19	
Normal Power (W)	3600	3000	3600	4000	
Rated Apparent Power (VA)	3600	3000	3600	4000	
Max. cont. input/output Power (W)	3600	3000	3600	4000	
Max. cont. Apparent Power (VA)	3600	3000	3600	4000	



Specifications table						
Model	AF3.6K-SL-1	AF3K-SL	AF3.6K-SL	AF4K-SL		
Power factor(adjustable)	1.0(-0.8~ +0.8)					
AC Load output (stand alone)						
Normal Voltage (VAC)		L/N/PE, 220	Vac, 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		
Rated Apparent Power (VA)	3600	3000	3600	4000		
Max. cont. Apparent Power (VA)	3600	3000	3600	4000		
Power factor		1	.0			
Others	-00		- 0			
Ingress protection (IP)	0	IP	265			
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	V06					



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	26 x 2	26 x 2
Max. PV input current / strings (A)	18.5 x 2	18.5 x 2	18.5 x 2	18.5 x 2
Number MPP trackers	2	2	2	2
Number input strings	1/1	1/1	1/1	1/1
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	- 0 0	Li-ion/Lea	d-acid etc.	
Battery Normal Voltage (Range) (Vdc)	0	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, 220	Vac, 230Vac	
Frequency (Hz)	2 : 4	50,	/ 60	
Normal AC Current (A)	20	21.8	24	26.1
Max. cont. input/output current (A)	22	23	26	28
Normal Power (W)	4600	5000	5500	6000
Rated Apparent Power (VA)	4600	5000	5500	6000
Max. cont. input/output Power (W)	4600	5000	5500	6000
Max. cont. Apparent Power (VA)	4600	5000	5500	6000



Specifications table					
Model	AF4.6K-SL	AF5K-SL	AF5.5K-SL	AF6K-SL	
Power factor(adjustable)		1.0(-0	.8~ +0.8)		
AC Load output (stand alone)					
Normal Voltage (VAC)		L/N/PE, 220	OVac, 230Vac		
Frequency (Hz)		50	/ 60		
Nominal Current(A)	20 21.8 24 2				
Max. cont. current (A)	22	23	26	28	
Max. cont. Power (W)	4600	5000	5500	6000	
Rated Apparent Power (VA)	4600	5000	5500	6000	
Max. cont. Apparent Power (VA)	4600	5000	5500	6000	
Power factor		1	1.0		
Others	- 0 0		- 0		
Ingress protection (IP)	0	in IF	P65		
Protective class	Class I				
Temperature ($^{\circ}$ 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	30	V	/06		



Specifications table					
Model	AF1K-SL-0	AF1.5K-SL-0	AF2K-SL-0	AF2.5K-SL-0	
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)	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, 220	Vac, 230Vac		
Frequency (Hz)		50,	⁷ 60		
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 (stand alone)			Alam .		
Normal Voltage (VAC)	20 1	L/N/PE, 220	Vac, 230Vac		
Frequency (Hz)	50 / 60				
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	
Rated Apparent Power (VA)	1000	1500	2000	2500	
Max. cont. Apparent Power (VA)	1000	1500	2000	2500	



Specifications table								
Model	AF1K-SL-0	AF1.5K-SL-0	AF2K-SL-0	AF2.5K-SL-0				
Power factor		1.0						
Others								
Ingress protection (IP)	IP65							
Protective class		Cla	ss I					
Temperature ($^{\circ}\mathbb{C}$)	-25°C to +60°C (Derating 45°C)							
Inverter Isolation	Non-isolated (AC-BAT)							
Overvoltage category	OVC III (AC Main)							
Firmware	V06							



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-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)	3000	3600	4000	4600	
AC Grid (input and output)					
Normal AC Voltage (VAC)		L/N/PE, 220	Vac, 230Vac		
Frequency (Hz)		50,	⁷ 60		
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)			Alam .		
Normal Voltage (VAC)	20 1	L/N/PE, 220	Vac, 230Vac		
Frequency (Hz)	50 / 60				
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	
Rated Apparent Power (VA)	3000	3600	4000	4600	
Max. cont. Apparent Power (VA)	3000	3600	4000	4600	



Specifications table							
Model	AF3K-SL-0	AF3.6K-SL-0	AF4K-SL-0	AF4.6K-SL-0			
Power factor		1.0					
Others							
Ingress protection (IP)	IP65						
Protective class		Class I					
Temperature ($^{\circ}\mathbb{C}$)	990	-25°C to +60°C (Derating 45°C)					
Inverter Isolation		Non-isolated (AC-BAT)					
Overvoltage category	OVC III (AC Main)						
Firmware	V06						



Specifications table				
Model	AF5K-SL-0	AF5.5K-SL-0	AF6K-SL-0	
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)	100	120	120	
Max charge/discharge Power(W)	5000	5500	6000	
AC Grid (input and output)				
Normal AC Voltage (VAC)		L/N/PE, 220	Vac, 230Vac	
Frequency (Hz)		50 ,	⁷ 60	
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)	2 . (L/N/PE, 220	Vac, 230Vac	
Frequency (Hz)		50,	[/] 60	
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	



Specifications table							
Model	AF5K-SL-0	AF5.5K-SL-0	AF6K-SL-0				
Others				- I			
Ingress protection (IP)	IP65						
Protective class	Class I						
Temperature ($^{\circ}$ C)		-25°C to +60°C (Derating 45°C)					
Inverter Isolation	Non-isolated (AC-BAT)						
Overvoltage category	OVC III (AC Main)						
Firmware	V06						