

31 January 2023

Afore New Energy Technology (Shanghai) Co., Ltd
Build No.7, 333 Wanfang Road
Shanghai, Minhang District, 201112
CHINA

Attention: Michelle Liu, Intertek Testing Services Shanghai

CERTIFICATION OF ELECTRICAL EQUIPMENT

It is our pleasure to issue you with the enclosed Certificate of Suitability EESS-221130-0.

Please check and ensure the details are correct in accordance with your application.

EESS Conformity Certification will upload the required certificate information to the National Database as detailed in the Australian / New Zealand Electrical Equipment Safety System (EESS), Equipment Safety Rules Appendix C.

The Responsible Supplier or their Authorised Representative is still required to register their equipment on the National Database as part of the EESS.

We remind you that the Regulatory Compliance Mark (RCM) must be used in accordance with its conditions of use as set out in the latest edition of [AS/NZS 4417.1](#).

The assessment was reviewed with the standards and conditions required by Clean Energy Council at the time of issue with test reports referenced, <https://www.cleanenergycouncil.org.au/industry/products>

Please note that as certification is based on type testing, modification to the electrical equipment in any way must be notified to EESS Conformity Certification for certification. Details of the modification may be advised by completing and submitting the application online via our Online Application System (OAS) with your login credentials.

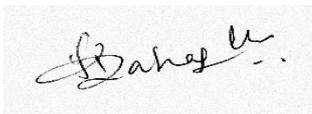
Any change to the name or address of the holder of the certificate must be notified to EESS Conformity Certification within one calendar month. Changes may be advised by completing and submitting the application online via our Online Application System (OAS) with your login credentials.

An application for the transfer of the Certificate from the existing Certificate Holder to another Holder may be made to EESS Conformity Certification by completing and submitting the application online via our Online Application System (OAS) with your login credentials.

Finally, please use the QR code below to take the two-minute survey and comment on our service.

Should you have any further queries, please contact the undersigned.

Yours sincerely,



For and on behalf of
Conformity Certification Services Pty Ltd



We'd love to know what you thought of our service. Please scan to fill in a brief survey or visit www.eessconformity.com



Certificate No.: EESS-221130-0

CERTIFICATE OF SUITABILITY

Certificate Holder: Afore New Energy Technology (Shanghai) Co., Ltd
Build No.7, 333 Wanfang Road
Shanghai, Minhang District, 201112
CHINA

Regulatory Definition: Non-declared / In-Scope
Product Type: Hybrid Inverter
Risk Level: 1
Trade Name: Afore
Model No(s): 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
Ratings: **See Certificate Addendum**

Standard(s): IEC 62109-1:2010 – (reference Test Report 220901962SHA-001)
IEC 62109-2:2011 – (reference Test Report 220901962SHA-002)
AS/NZS 4777.2:2020 +A1 – (reference Test Report 220803032SHA-001)

Conditions: To be installed by CEC accredited installers in accordance with the Installation Manual.
This Certification does not consider, other installation requirements or the additional
Clean Energy Council requirements for Grid Connect/ Hybrid inverters or power
conversion equipment (PCE).

Required marking: The Regulatory Compliance Mark (RCM) in accordance with its conditions of use as set
out in the latest edition of AS/NZS 4417.1.

Date of Issue: 31 January 2023
Valid until: 30 January 2028

Conformity Certification Services Pty Ltd as accredited by JAS-ANZ under ISO/IEC 17065 certifies that the Electrical
Equipment as described on this certificate complies with the minimum essential safety requirements for which the
application has been made. Certification is based on type testing.

For and on behalf of Conformity Certification Services Pty Ltd
trading as EESS Conformity Certification



Certificate No.: EESS-221130-0

CERTIFICATE ADDENDUM

Model	AF1K-SL-1	AF1.5K- SL-1	AF2K-SL-1	AF2.5K- SL-1	AF3K-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)					
Battery type	Li-ion/Lead-acid				
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 (stand alone)					
Normal Voltage (VAC)	L/N/PE, 230Vac				
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
Rated Apparent Power (VA)	1000	1500	2000	2500	3000



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Max. cont. Apparent Power (VA)	1000	1500	2000	2500	3000
Power factor	1.0				
Others					
Ingress protection (IP), Protective class, Temperature (°C), Inverter Isolation, Overvoltage category, Firmware	IP65 Class I, -25°C to +60°C (Derating 45°C), Non-isolated (PV-AC-BAT), OVC III (AC Main), OVC II (PV), V06				

Model	AF3.6K-SL-1	AF3K-SL	AF3.6K-SL	AF4K-SL
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			
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 (stand alone)				
Normal Voltage (VAC)	L/N/PE, 230Vac			



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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
Rated Apparent Power (VA)	3600	3000	3600	4000
Max. cont. Apparent Power (VA)	3600	3000	3600	4000
Power factor	1.0			
Others				
Ingress protection (IP), Protective class, Temperature (°C), Inverter Isolation, Overvoltage category, Firmware	IP65 Class I, -25°Cto +60°C(Derating 45°C), Non-isolated (PV-AC-BAT), OVC III (AC Main), OVC II (PV), V06			

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			
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
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



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Max. cont. Apparent Power (VA)	4600	5000	5500	6000
Power factor(adjustable)	1.0 (-0.8~ to +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
Rated Apparent Power (VA)	4600	5000	5500	6000
Max. cont. Apparent Power (VA)	4600	5000	5500	6000
Power factor	1.0			
Others				
Ingress protection (IP), Protective class, Temperature (°C), Inverter Isolation, Overvoltage category, Firmware	IP65 Class I, -25°Cto +60°C(Derating 45°C), Non-isolated (PV-AC-BAT), OVC III (AC Main), OVC II (PV), V06			

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