

Certificate of Conformity (COC)



Certificate Holder : Shenzhen Aohai Digital Power Co., Ltd.
2501, Building 1, Huide Building, North Station Community, MinzhiStreet, Longhua District, Shenzhen, Guangdong, China

Date of Original Issue : 2024-12-06

Date of Last Revision : --

Date of Expiry : 2027-12-05

Certificate Number : PCS-24-1177

Product : Three-phase Hybrid Inverter

Ratings : See appendix on page 2

Brand/Trademark : **AOHAI**

Model : AH-4KTH-G1, AH-5KTH-G1, AH-6KTH-G1, AH-7KTH-G1, AH-8KTH-G1, AH-10KTH-G1

Test Laboratory : SGS-CSTC Standards Technical Services Co., Ltd. Suzhou Branch

Testing Report : SUEE240500005551

Test Standard : EN 50549-1:2019 and EN 50549-10: 2022



This is to certify that the product has been tested and was found to comply with the requirements of the standard(s).
The above-mentioned product is certified according to the requirements of ISO/IEC 17065:2012.

The above-mentioned product is certified according to the standard EN 50549-1: 2019 and is valid to be installed in generating of type plants B to be connected to a LV distribution network. The relation between this European Standard with the relevant Article of COMMISSION REGULATION (EU) 2016/631 (NC RfG) is considered as it is indicated in the annex H of the standard EN 50549-1:2019.

Requirements for interface protection according to the clause 4.9.3 of the EN 50549-1: 2019 standard have been checked verifying upper and lower thresholds of the voltage and frequency configuration ranges which are required in the certified standard. This ensures the compliance with interface protection settings which adjusted inside of these configuration ranges, as for example, interface protection settings needed in **Czech Republic**

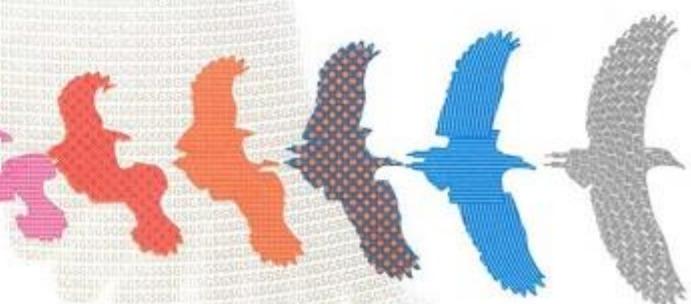
Christopher Hee
Certification Officer



SGS Testing & Control Services Singapore Pte Ltd
30 Boon Lay Way #03-01 Singapore 609957

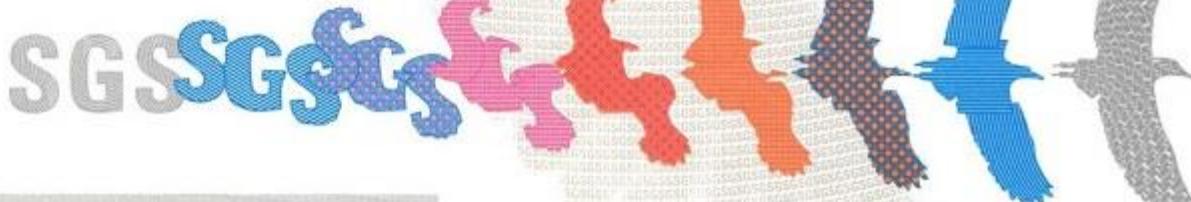


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Model	AH-4KTH-G1	AH-5KTH-G1	AH-6KTH-G1	AH-7KTH-G1	AH-8KTH-G1	AH-10KTH-G1
DC Input (PV)						
Max. DC voltage				1000 V		
Rated input voltage				600 V		
Voltage range				120 V ~ 1000 V		
Max. input current				16 A / 16 A		
Max. short circuit current				20 A / 20 A		
DC Input (Battery)						
Type of battery				Li-Ion / Lead-acid		
Voltage range				100 V ~ 550 V		
Max. charging/discharging current				25 A / 25 A		
Max. charging/discharging power	4000 W	5000 W	6000 W	7000 W	8000 W	10000 W
AC Output (On-grid)						
Rated output power	4000 W	5000 W	6000 W	7000 W	8000 W	10000 W
Max. apparent output power	4000 VA	5000 VA	6000 VA	7000 VA	8000 VA	10000 VA
Max. output current	6.1 A	7.6 A	9.1 A	10.6 A	12.2 A	15.2 A
Nominal grid voltage				230/400 V, 3L/N/PE		
Nominal output frequency				50 Hz		
Output power factor				0.8 leading to 0.8 lagging		
AC Output (Back-up)						
Rated output power	4000 W	5000 W	6000 W	7000 W	8000 W	10000 W
Max. apparent output power	4000 VA	5000 VA	6000 VA	7000 VA	8000 VA	10000 VA
Max. output current	6.1 A	7.6 A	9.1 A	10.6 A	12.2 A	15.2 A
Nominal grid voltage				230/400 V, 3L/N/PE		
Nominal output frequency				50 Hz		
Other						
Operating temperature range				-25°C ~ +60°C (Derating above 45°C)		
Ingress Protection				IP66		
Protective Class				Class I		
Cooling concept				Natural		



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