

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



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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					

