

# 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-24-1178

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.

Christopher Hee  
Certification Officer



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



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## APPENDIX

Certificate Number: PCS-24-1178

| Model                             | AH-4KTH-G1 | AH-5KTH-G1 | AH-6KTH-G1                          | AH-7KTH-G1 | AH-8KTH-G1 | AH-10KTH-G1 |
|-----------------------------------|------------|------------|-------------------------------------|------------|------------|-------------|
| <b>DC Input (PV)</b>              |            |            |                                     |            |            |             |
| 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                         |            |            |             |
| <b>DC Input (Battery)</b>         |            |            |                                     |            |            |             |
| 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     |
| <b>AC Output (On-grid)</b>        |            |            |                                     |            |            |             |
| 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          |            |            |             |
| <b>AC Output (Back-up)</b>        |            |            |                                     |            |            |             |
| 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                               |            |            |             |
| <b>Other</b>                      |            |            |                                     |            |            |             |
| 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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