

## VERIFICATION OF COMPLIANCE

No.: GZES2401000358PV

Applicant: Shenzhen Aohai Digital Power Co., Ltd.  
2501, Building 1, Huide Building, North Station Community,  
Minzhi Street, Longhua, Shenzhen, Guangdong, China

Manufacturer: Shenzhen Aohai Digital Power Co., Ltd.  
2501, Building 1, Huide Building, North Station Community,  
Minzhi Street, Longhua, Shenzhen, Guangdong, China

Product Name: Three-phase Hybrid Inverter

Product Description: --

Model No.: AH-4KTH-G1, AH-5KTH-G1, AH-6KTH-G1,  
AH-7KTH-G1, AH-8KTH-G1, AH-10KTH-G1

Trade Mark: **AOHAI**

Rating: Refer to page 2-3

Protection against Electric Shock: Class I

Degree of Protection: IP66

Additional Information (if any): -

Sufficient samples of the product have been tested and found to be in conformity with  
Test Standard: IEC 62109-1: 2010  
IEC 62109-2: 2011

as shown in the  
Test Report Number(s): GZES240100035801  
GZES240100035802

This Verification of Compliance has been granted to the applicant based on the results of tests, performed by Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards.

David Guo  
Technical Manager  
SGS-CSTC Standards Technical Services Co., Ltd.

2024-09-24

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Member of the SGS Group (SGS SA)

No.:

GZES2401000358PV

Other information added:

Rating:

Model Specifications	AH-4KTH-G1	AH-5KTH-G1	AH-6KTH-G1	AH-7KTH-G1	AH-8KTH-G1	AH-10KTH-G1
Input data (PV)						
Max. recommended PV power (for module STC)	6000 W	7500 W	9000 W	10500 W	12000 W	15000 W
Max. DC voltage	1000 V					
Start voltage	120 V					
Nominal voltage	600 V					
MPP voltage range	120~1000 V					
No. of MPP trackers	2					
No. of PV strings per MPP trackers	1					
Max. input current per MPP	16 A					
Max. short-circuit current per MPP trackers	20 A					
Output data (Grid)						
AC nominal power	4000 W	5000 W	6000 W	7000 W	8000 W	10000 W
Max. AC apparent power	4000 VA	5000 VA	6000 VA	7000 VA	8000 VA	10000 VA
Nominal AC voltage	230 V/400 V a.c.; 3 W/N/PE					
AC grid frequency	50/60, ±5 Hz					
Max. output current	6.1 A	7.6 A	9.1 A	10.6 A	12.2 A	15.2 A
Power factor	1 (0.8 leading ~ 0.8 lagging)					
Stand-alone (AC power)						

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Technical Manager

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Member of the SGS Group (SGS SA)

AC nominal output power	4000 W	5000 W	6000 W	7000 W	8000 W	10000 W
Max. AC apparent power	4000 VA	5000 VA	6000 VA	7000 VA	8000 VA	10000 VA
Nominal AC voltage	230 V/400 V a.c; 3 W/N/PE					
Nominal AC frequency	50/60 Hz					
Max. output current	6.1 A	7.6 A	9.1 A	10.6 A	12.2 A	15.2 A
Battery data (DC)						
Battery voltage range	100~550 V d.c.					
Recommended battery voltage	415 V d.c.					
Max. charging / discharging current	25 A/25 A					
Continuous charging / discharging power	4000 W	5000 W	6000 W	7000 W	8000 W	10000 W
Type of battery	Lithium battery / Lead-acid battery					
General data						
Dimensions (W*H*D)	545*480*195 mm					
Weight	31.9 kg					
Operating temperature range	-25°C ~ +60°C; with derating above 45°C					
Altitude	3000 m					
Topology	Transformerless					
Protection degree	IP66					
Over voltage category	II (PV), III (Mains)					

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