

Test Verification of Conformity

Verification Number: 241028013GZU-VOC001

On the basis of the tests undertaken, the sample<s> of the below product has been tested by an accredited 3rd party laboratory in accordance to the referenced specification<s>/standard<s> at the time the tests were carried out. This verification is part of the full test report<s> and should be read in conjunction with it <them>.

This document can be used in support of a claim in meeting relevant EU legislation and mandatory Conformity Marking. And in accordance with EU law, the claim is the sole obligation of the Manufacturer/ Importer.

Applicant Name & Address:

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

Product Description:

Three-Phase Hybrid Inverter

Ratings & Principle

See Appendix: Test Verification of Conformity

Characteristics:

Models/Type References:

AHW-6KTHD-G1, AHW-7KTHD-G1, AHW-8KTHD-G1, AHW-10KTHD-G1.

Brand Names:

AOHAI

Specification<s>/Standards:

IEC/EN 62109-1: 2010 Safety of power converters for use in photovoltaic power systems

– Part 1: General requirements

IEC/EN 62109-2: 2011 Safety of power converters for use in photovoltaic power systems

– Part 2: Particular requirements for inverters

Low Voltage Directive 2014/35/EU

Verification Issuing Office Name & Address:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China

Date of Tests:

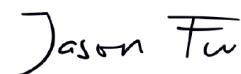
11 Nov. 2024 to 24 Dec. 2024

Test Report Number(s):

241028013GZU-001, 17 Jan. 2025

241028013GZU-002, 17 Jan. 2025

Additional information in Appendix.



Signature

Name: Jason Fu

Position: Supervisor

Date: 20 January 2025

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 241028013GZU-VOC001.

Inverter Module	AHW-6KTHD-G1	AHW-7KTHD-G1	AHW-8KTHD-G1	AHW-10KTHD-G1
PV Input				
Max.PV input voltage	1000Vd.c.			
MPPT voltage range	120~1000Vd.c.			
Max.PV input power	9000W	10500W	12000W	15000W
Max.PV input current	16Ad.c.*2			
Isc PV(absolute maximum)	20Ad.c.*2			
Start-up voltage	120Vd.c.			
Nominal input voltage	600Vd.c.			
Battery				
Battery Type	Li-ion			
Battery voltage range	100~600Vd.c.			
Max.charge/discharge current	25Ad.c./25Ad.c.			
AC Input				
Rated voltage	3L/N/PE 230/400Va.c.			
Max. continuous current	9.1Aa.c.	10.6Aa.c.	12.2Aa.c.	15.2Aa.c.
Rated frequency	50/60Hz			
AC Output (On Grid)				
Rated active power	6000W	7000W	8000W	10000W
Max. apparent power	6000VA	7000VA	8000VA	10000VA
Rated voltage	3L/N/PE 230/400Va.c.			
Max. current	9.1Aa.c.	10.6Aa.c.	12.2Aa.c.	15.2Aa.c.
Frequency	50/60Hz			
Power factor range	0.8 leading to 0.8 lagging			
AC Output (Back-up)				
Max.apparent power	6000VA	7000	8000	10000
Rated voltage	3L/N/PE 230/400Va.c.			
Max.current	9.1Aa.c.	10.6 Aa.c.	12.2 Aa.c.	15.2 Aa.c.
Frequency	50/60Hz			
Power factor range	0.8 leading to 0.8 lagging			
General Information				
Operating temperature range	-25...+60°C			
Inverter topology	Non-isolated			
Ingress protection	IP65			
Protective class	I			
Over voltage category	II(DC),III(MAINS)			
Software version	CA1.0			

Jason Fu

Signature

Name: Jason Fu

Position: Supervisor

Date: 20 January 2025

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