

Certificate of Conformity (COC)



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

Date of Original Issue : 2024-04-07

Date of Last Revision : --

Date of Expiry : 2027-04-06

Certificate Number : PCS-24-1033

Product : Bidirectional Converter

Ratings : See appendix on page 2

Brand/Trademark : 

Model(s) : AH-3KSL-G2, AH-3.6KSL-G2, AH-4KSL-G2, AH-4.6KSL-G2, AH-5KSL-G2, AH-6KSL-G2

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

Testing Report : SUEE240300002351

Test Standard : C10/11: 2021



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.

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-3KSL-G2	AH-3.6KSL-G2	AH-4KSL-G2	AH-4.6KSL-G2	AH-5KSL-G2	AH-6KSL-G2
PV String Input Data						
Start-up voltage	120 V					
Rated input voltage	360 V					
Max. input voltage	550 V					
MPPT operating voltage range	90 V~550 V					
Max. input current	2*16 A					
Max. short current	2*20 A					
Recommended Max. PV power	6 kW	7.2 kW	8 kW	9.2 kW	10 kW	10.8 kW
Battery Input Data						
Battery type	Li-Ion					
Battery voltage range	42 V~59 V					
Min. full load voltage	45 V	45 V	46 V	46 V	50 V	50 V
Max. charging/discharging current	66.7 A	80 A	87 A	100 A	100 A	120 A
Continuous charging/discharging power	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
AC Input / Output (On-grid)						
Nominal grid voltage	L/N/PE, 230 Vac					
Nominal grid frequency	50 Hz					
Max. AC current	16 A	16 A	22 A	22 A	27 A	27 A
Rated AC power	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Max. AC power	3 kVA	3.6 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Output power factor	1 default (adjustable+/-0.8)					
AC Output (Back-up)						
Nominal grid voltage	L/N/PE, 230 Vac					
Nominal grid frequency	50 Hz					
Max. AC current	16 A	16 A	22 A	22 A	27 A	27 A
Rated AC power	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Max. AC power	3.6 kVA	4.32 kVA	4.8 kVA	5.52 kVA	6 kVA	6 kVA
Operating temperature range	-25 °C ~+60 °C, with derating above 45° C					
Protection degree	IP65					
Protective class	Class I					
Cooling method	Natural Cooling					

