

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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SGS-CSTC Standards Technical Services Co., Ltd.
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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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| | | | | | | |
|---|---|---------|---------|---------|---------|----------|
| 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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