Test Verification of Conformity

Verification Number: 221206021GZU- VOC002

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of 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>.

Applicant Name & Address:	Shenzhen Givenergy Co., Ltd 6 # -1001, 1002, 1003, 1004, Building 6, Chuangwei Innovation Valley, No 8Tangtou 1st Road, Shiyan Sub-district, Bao'an District, Shenzhen, China.
Product Description:	AC Coupled
Ratings & Principle Characteristics:	See appendix: Test Verification of Conformity
Models/Type References:	GIV-AIO-AC-13.5-5.0, GIV-AIO-AC-13.5, GIV-AIO-GW1
Brand Names:	GivEnergy
Specification<s>/Standards:	G99/NI: Issue 1, April 2019 Requirements for the connection of generation equipment in parallel with public distribution networks
Verification Issuing Office Name & Address:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China
Date of Tests:	07 Dec 2022 – 03 July 2023
Test Report Number(s):	221206021GZU-002

Additional information in Appendix.

Jason Fu

Signature

Name: Jason Fu
Position: Supervisor
Date: 02 August 2023

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 221206021GZU-VOC002

Model	GIV-AIO-AC-13.5-5.0	GIV-AIO-AC-13.5
INPUT/OUTPUT AC		
Nominal AC power	5000W	6000W
Max. Apparent power	5000VA	6000VA
Peak power (10s, off-grid)	6000VA	7200VA
Rated grid voltage (AC voltage range)	230 V.a.c(180 to 270V.a.c)	
Rated grid Frequency	50/60Hz	
Nominal AC current	21.7A	26A
Max. AC current	21.7A	26A
Power Factor （Full load）	> 0.99	
Displacement power factor	0.8 leading to 0.8 lagging	
Number of parallel operation	6(M1-S5)	
Maximum output fault current	400A@10us	
Maximum output overcurrent protection	70A	
BATTERY		
Battery voltage range	260--346V	
Max.charge/discharge current	25A	
Nominal voltage	307V	
Communication interfaces	CAN	
Battery capacity	13.5kWh	
ENVIRONMENT LIMIT		
Ingress protection	IP65	
Operating temperature range	-10 ~ +50°C	
Altitude	4000m (Derating above 2000m)	
GENERAL DATA		
Protective Class	Class I	
Cooling concept	Natural	
Topology	Transformerless	
Communication	RS485/WIFI/4G inside	

Jason Fu

Signature

Name: Jason Fu
Position: Supervisor
Date: 02 August 2023

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 221206021GZU-VOC002

Model	GIV-AIO-GW1
GRID/OFF-GRID OUTPUT AC	
Nominal AC power	18400W
Nominal AC current	80A
Max. AC current	80A
Rated voltage	230V.a.c
Rated Frequency	50/60Hz
Maximum output fault current	6000A
Maximum output overcurrent protection	80A
EV CHARGER OUTPUT AC	
Nominal AC power	7200W
Nominal AC current	32A
Max. AC current	32A
Rated voltage	230V.a.c
Rated Frequency	50/60Hz
Maximum output fault current	6000A
Maximum output overcurrent protection	32A
AIO INPUT AC	
Rated voltage	230V.a.c
Nominal AC current	26A
Max. AC current	26A
Rated Frequency	50/60Hz
PV INV INPUT AC	
Rated voltage	230V.a.c
Nominal AC current	21.7A
Max. AC current	21.7A
Rated Frequency	50/60Hz
AIO Parallel INPUT AC	
Rated voltage	230V.a.c
Nominal AC current	130A
Max. AC current	130A
Rated Frequency	50/60Hz
GENERAL DATA	
Ingress protection	IP65
Operating temperature range	-20 ~ +50°C
Protective Class	Class I

Jason Fu

Signature

Name: Jason Fu
Position: Supervisor
Date: 02 August 2023

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