Test Verification of Conformity

Verification Number: 240424080GZU-VOC001

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:	Sigenergy Technology Co., Ltd. No.175 Weizhan Road, Lingang New Area,China (Shanhgai)Pilot Free Trade Zone Shanghai P.R.China.
Product Description: Ratings & Principle Characteristics:	Hybrid Inverter & Inverter See Appendix: Test Verification of Conformity
Models/Type References:	Sigen PV 50M1, Sigen PV 60M1, Sigen PV 80M1, Sigen PV 100M1, Sigen PV 110M1, Sigen PV 125M1, Sigen PV 150M1, Sigen PV 50M1-HYA, Sigen PV 60M1-HYA, Sigen PV 80M1-HYA, Sigen PV 100M1-HYA, Sigen PV 110M1-HYA, Sigen PV 125M1-HYA, Sigen PV 150M1-HYA, Sigen PV 50M1-HYB, Sigen PV 60M1-HYB, Sigen PV 80M1-HYB, Sigen PV 100M1-HYB, Sigen PV 110M1-HYB, Sigen PV 125M1-HYB, Sigen PV 150M1-HYB, Sigen PCS 50M1-A, Sigen PCS 60M1-A, Sigen PCS 80M1-A, Sigen PCS 100M1-A, Sigen PCS 110M1-A, Sigen PCS 125M1-A, Sigen PCS 150M1-A, Sigen PV 50M2, Sigen PV 60M2, Sigen PV 80M2, Sigen PV 100M2, Sigen PV 110M2, Sigen PV 125M2, Sigen PV 150M2, Sigen PV 50M2-HYA, Sigen PV 60M2-HYA, Sigen PV 80M2-HYA, Sigen PV 100M2-HYA, Sigen PV 110M2-HYA, Sigen PV 125M2-HYA, Sigen PV 150M2-HYA, Sigen PV 50M2-HYB, Sigen PV 60M2-HYB, Sigen PV 80M2-HYB, Sigen PV 100M2-HYB, Sigen PV 110M2-HYB, Sigen PV 125M2-HYB, Sigen PV 150M2-HYB, Sigen PCS 50M2-A, Sigen PCS 60M2-A, Sigen PCS 80M2-A, Sigen PCS 100M2-A, Sigen PCS 110M2-A, Sigen PCS 125M2-A, Sigen PCS 150M2-A
Brand Names:	SIGENERGY
Specification<s>/Standards:	Engineering Recommendation G100 Issue 2 2022 Amendment 1 Technical Requirements for Customers' Export and Import Limitation Schemes
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:	10 December 2024 – 02 January 2025
Test Report Number(s):	240424080GZU-002, 02 January 2025

Additional information in Appendix.

Jason Fu

Signature
Name: Jason
Position: Supervisor
Date: 06 January 2025

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 240424080GZU-VOC001.

Manufacture Name & Address: Same as applicant

Ratings & Principle Characteristics:

Model	Sigen PV 50M1-HYA /Sigen PV 50M1-HYB	Sigen PV 60M1-HYA /Sigen PV 60M1-HYB	Sigen PV 80M1-HYA /Sigen PV 80M1-HYB	Sigen PV 100M1-HYA /Sigen PV 100M1-HYB
DC Input				
Nominal DC input voltage [V_{DC}]	600			
MPPT voltage range [V_{DC}]	160 ~ 1000			
Number of MPP. trackers	4	5	6	8
Max. input current per MPPT [A_{DC}]	32			
Max. short-circuit current per MPPT [A_{DC}]	50			
Battery input				
Operating DC Voltage Range [V_{DC}]	550~1000			
Battery maximum continuous current [A_{DC}]	180			

Jason Fu

Signature

Name: Jason
Position: Supervisor
Date: 06 January 2025

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 240424080GZU-VOC001.

AC Output				
Nominal output active power [W]	50000	60000	80000	100000
Max. output apparent power [VA]	55000	66000	88000	110000
Nominal output current [A_{AC}]	76.0/72.5	91.2/87.0	121.5/115.9	151.9/144.9
Max. output current [A_{AC}]	83.6/79.7	100.3/95.7	133.7/127.5	167.1/159.4
Nominal output voltage [V_{AC}]	380 / 400 (3 / N / PE, N-wire is optional)			
Nominal grid frequency [Hz]	50 / 60			
Power factor	0 .8 leading ~ 0 .8 lagging			
General Data				
Operating temperature range [℃]	-30 ~ 60			
System ingress protection rating	IP66			

Jason Fu

Signature

Name: Jason
Position: Supervisor
Date: 06 January 2025

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 240424080GZU-VOC001.

Model	Sigen PV 110M1-HYA /Sigen PV 110M1-HYB	Sigen PV 125M1-HYA /Sigen PV 125M1-HYB	Sigen PV 150M1-HYA /Sigen PV 150M1-HYB
DC Input			
Nominal DC input voltage [V_{DC}]	600		
MPPT voltage range [V_{DC}]	160 ~ 1000		
Number of MPP. trackers	8	8	8
Max. input current per MPPT [A_{DC}]	32		
Max. short-circuit current per MPPT [A_{DC}]	50		
Battery input			
Operating DC Voltage Range [V_{DC}]	550~1000		
Battery maximum continuous current [A_{DC}]	180		

Jason Fu

Signature

Name: Jason
Position: Supervisor
Date: 06 January 2025

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 240424080GZU-VOC001.

AC Output			
Nominal output active power [W]	110000	125000	150000
Max. output apparent power [VA]	121000	125000	150000
Nominal output current [A_{AC}]	167.1/159.4	181.2	217.4
Max. output current [A_{AC}]	183.8/175.4	181.2	217.4
Nominal output voltage [V_{AC}]	380 / 400 (3 / N / PE, N-wire is optional)	400 (3 / N / PE, N-wire is optional)	
Nominal grid frequency [Hz]	50 / 60		
Power factor	0 .8 leading ~ 0 .8 lagging		
General Data			
Operating temperature range [℃]	-30 ~ 60		
System ingress protection rating	IP66		

Jason Fu

Signature

Name: Jason
Position: Supervisor
Date: 06 January 2025

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 240424080GZU-VOC001.

Model	Sigen PCS 50M1	Sigen PCS 60M1	Sigen PCS 80M1	Sigen PCS 100M1
Battery input				
Operating DC Voltage Range [V_{DC}]	550~1000			
Battery maximum continuous current [A_{DC}]	180			
AC Output				
Nominal output active power [W]	50000	60000	80000	100000
Max. output apparent power [VA]	55000	66000	88000	110000
Nominal output current [A_{AC}]	76.0/72.5	91.2/87.0	121.5/115.9	151.9/144.9
Max. output current [A_{AC}]	83.6/79.7	100.3/95.7	133.7/127.5	167.1/159.4
Nominal output voltage [V_{AC}]	380 / 400 (3 / N / PE, N-wire is optional)			
Nominal grid frequency [Hz]	50 / 60			
Power factor	0 .8 leading ~ 0 .8 lagging			
General Data				
Operating temperature range [℃]	-30 ~ 60			
System ingress protection rating	IP66			

Jason Fu

Signature

Name: Jason
Position: Supervisor
Date: 06 January 2025

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 240424080GZU-VOC001.

Model	Sigen PCS 110M1	Sigen PCS 125M1	Sigen PCS 150M1
Battery input			
Operating DC Voltage Range [V_{DC}]	550~1000		
Battery maximum continuous current [A_{DC}]	180		
AC Output			
Nominal output active power [W]	110000	125000	150000
Max. output apparent power [VA]	121000	125000	150000
Nominal output current [A_{AC}]	167.1/159.4	181.2	217.4
Max. output current [A_{AC}]	183.8/175.4	181.2	217.4
Nominal output voltage [V_{AC}]	380 / 400 (3 / N / PE, N-wire is optional)	400 (3 / N / PE, N-wire is optional)	
Nominal grid frequency [Hz]	50 / 60		
Power factor	0 .8 leading ~ 0 .8 lagging		
General Data			
Operating temperature range [°C]	-30 ~ 60		
System ingress protection rating	IP66		

Jason Fu

Signature

Name: Jason
Position: Supervisor
Date: 06 January 2025

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 240424080GZU-VOC001.

Model	Sigen PV 50M2	Sigen PV 60M2	Sigen PV 80M2	Sigen PV 100M2
DC Input				
Nominal DC input voltage [V_{DC}]	600			
MPPT voltage range [V_{DC}]	160 ~ 1150			
Number of MPP. trackers	4	5	6	8
Max. input current per MPPT [A_{DC}]	32			
Max. short-circuit current per MPPT [A_{DC}]	50			
AC Output				
Nominal output active power [W]	50000	60000	80000	100000
Max. output apparent power [VA]	55000	66000	88000	110000
Nominal output current [A_{AC}]	76.0/72.5	91.2/87.0	121.5/115.9	151.9/144.9
Max. output current [A_{AC}]	83.6/79.7	100.3/95.7	133.7/127.5	167.1/159.4
Nominal output voltage [V_{AC}]	380 / 400 (3 / N / PE, N-wire is optional)			
Nominal grid frequency [Hz]	50 / 60			
Power factor	0 .8 leading ~ 0 .8 lagging			
General Data				
Operating temperature range [°C]	-30 ~ 60			
System ingress protection rating	IP66			

Jason Fu

Signature

Name: Jason
Position: Supervisor
Date: 06 January 2025

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 240424080GZU-VOC001.

Model	Sigen PV 110M2	Sigen PV 125M2	Sigen PV 150M2
DC Input			
Nominal DC input voltage [V_{DC}]	600		
MPPT voltage range [V_{DC}]	160 ~ 1150		
Number of MPP. trackers	8	8	8
Max. input current per MPPT [A_{DC}]	32		
Max. short-circuit current per MPPT [A_{DC}]	50		
AC Output			
Nominal output active power [W]	110000	125000	150000
Max. output apparent power [VA]	121000	125000	150000
Nominal output current [A_{AC}]	167.1/159.4	181.2	217.4
Max. output current [A_{AC}]	183.8/175.4	181.2	217.4
Nominal output voltage [V_{AC}]	380 / 400 (3 / N / PE, N-wire is optional)	400 (3 / N / PE, N-wire is optional)	
Nominal grid frequency [Hz]	50 / 60		
Power factor	0 .8 leading ~ 0 .8 lagging		
General Data			
Operating temperature range [°C]	-30 ~ 60		
System ingress protection rating	IP66		

Jason Fu

Signature

Name: Jason
Position: Supervisor
Date: 06 January 2025

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 240424080GZU-VOC001.

Model	Sigen PV 50M2-HYA /Sigen PV 50M2-HYB	Sigen PV 60M2-HYA /Sigen PV 60M2-HYB	Sigen PV 80M2-HYA /Sigen PV 80M2-HYB	Sigen PV 100M2-HYA /Sigen PV 100M2-HYB
DC Input				
Nominal DC input voltage [V_{DC}]	600			
MPPT voltage range [V_{DC}]	160 ~ 1150			
Number of MPP. trackers	4	5	6	8
Max. input current per MPPT [A_{DC}]	32			
Max. short-circuit current per MPPT [A_{DC}]	50			
Battery input				
Operating DC Voltage Range [V_{DC}]	550~1150			
Battery maximum continuous current [A_{DC}]	180			

Jason Fu

Signature

Name: Jason
Position: Supervisor
Date: 06 January 2025

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 240424080GZU-VOC001.

AC Output				
Nominal output active power [W]	50000	60000	80000	100000
Max. output apparent power [VA]	55000	66000	88000	110000
Nominal output current [A_{AC}]	76.0/72.5	91.2/87.0	121.5/115.9	151.9/144.9
Max. output current [A_{AC}]	83.6/79.7	100.3/95.7	133.7/127.5	167.1/159.4
Nominal output voltage [V_{AC}]	380 / 400 (3 / N / PE, N-wire is optional)			
Nominal grid frequency [Hz]	50 / 60			
Power factor	0 .8 leading ~ 0 .8 lagging			
Operating temperature range [°C]	-30 ~ 60			
System ingress protection rating	IP66			

Jason Fu

Signature

Name: Jason
Position: Supervisor
Date: 06 January 2025

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 240424080GZU-VOC001.

Model	Sigen PCS 50M2	Sigen PCS 60M2	Sigen PCS 80M2	Sigen PCS 100M2
Battery input				
Operating DC Voltage Range [V_{DC}]	550~1150			
Battery maximum continuous current [A_{DC}]	180			
AC Output				
Nominal output active power [W]	50000	60000	80000	100000
Max. output apparent power [VA]	55000	66000	88000	110000
Nominal output current [A_{AC}]	76.0/72.5	91.2/87.0	121.5/115.9	151.9/144.9
Max. output current [A_{AC}]	83.6/79.7	100.3/95.7	133.7/127.5	167.1/159.4
Nominal output voltage [V_{AC}]	380 / 400 (3 / N / PE, N-wire is optional)			
Nominal grid frequency [Hz]	50 / 60			
Power factor	0 .8 leading ~ 0 .8 lagging			
General Data				
Operating temperature range [°C]	-30 ~ 60			
System ingress protection rating	IP66			

Jason Fu

Signature

Name: Jason
Position: Supervisor
Date: 06 January 2025

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 240424080GZU-VOC001.

Model	Sigen PCS 110M2	Sigen PCS 125M2	Sigen PCS 150M2
Battery input			
Operating DC Voltage Range [V_{DC}]	550~1150		
Battery maximum continuous current [A_{DC}]	180		
AC Output			
Nominal output active power [W]	110000	125000	150000
Max. output apparent power [VA]	121000	125000	150000
Nominal output current [A_{AC}]	167.1/159.4	181.2	217.4
Max. output current [A_{AC}]	183.8/175.4	181.2	217.4
Nominal output voltage [V_{AC}]	380 / 400 (3 / N / PE, N-wire is optional)	400 (3 / N / PE, N-wire is optional)	
Nominal grid frequency [Hz]	50 / 60		
Power factor	0 .8 leading ~ 0 .8 lagging		
General Data			
Operating temperature range [℃]	-30 ~ 60		
System ingress protection rating	IP66		

Jason Fu

Signature

Name: Jason
Position: Supervisor
Date: 06 January 2025