

# Test Verification of Conformity

Verification Number: 241016030GZU-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>.

Applicant Name & Address:	Sigenergy Technology Co., Ltd. No. 175 Weizhan Road, Lingang New Area, China(Shanghai) Pilot Free Trade Zone, Shanghai, P.R.China
Product Description:	SigenStack Energy Storage System
Ratings & Principle Characteristics:	See Appendix: Test Verification of Conformity
Models/Type References:	See page 2-11 for details
Brand Names:	Sigenergy
Specification<s>/Standards:	ANSI/CAN/UL 9540A:2019 Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems Unit level test (clause 9.1-9.8)
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:	13 March 2025 to 17 March 2025
Test Report Number(s):	241016030GZU-002, 11
Additional information in Appendix.	

## Signature

Name:   
Position: Manager  
Date: 16 April 2025

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## APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 241016030GZU-VOC001.

Ratings & Principle Characteristics:

Model:	SigenStack M2-0.5C-BST-4/48.23 kWh	SigenStack M2-0.5C-BST-5/60.29 kWh	SigenStack M2-0.5C-BST-6/72.35 kWh	SigenStack M2-0.5C-BST-7/84.4 kWh	SigenStack M2-0.5C-BST-8/96.46 kWh
Rated capacity (Ah):	314	314	314	314	314
Rated energy (kWh):	48.23	60.29	72.35	84.4	96.46
Nominal voltage (V):	153.6	192	230.4	268.8	307.2
Weight(kg):	500	605.5	711	816.5	922
Module series and/or parallel configuration:	4S1P	5S1P	6S1P	7S1P	8S1P
Total number of cells:	48	60	72	84	96
<b>Standard charge method:</b>					
Charge power (kW):	24.1152	30.144	36.1728	42.2016	48.2304
End of charge voltage (V):	170.4	213	255.6	298.2	340.8
<b>Standard discharge method:</b>					
Discharge power (kW):	24.1152	30.144	36.1728	42.2016	48.2304
End of discharge voltage (V):	139.2	174	208.8	243.6	278.4

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Ratings & Principle Characteristics:

Model:	SigenStack M2-0.5C-BST-9/108.52 kWh	SigenStack M2-0.5C-BST-10/120.58 kWh	SigenStack M2-0.5C-BST-11/132.63 kWh	SigenStack M2-0.5C-BST-12/144.69 kWh	SigenStack M2-0.5C-BST-13/156.75 kWh
Rated capacity (Ah):	314	314	314	314	314
Rated energy (kWh):	108.52	120.58	132.63	144.69	156.75
Nominal voltage (V):	345.6	384	422.4	460.8	499.2
Weight(kg):	1027.5	1133	1238.5	1344	1449.5
Module series and/or parallel configuration:	9S1P	10S1P	11S1P	12S1P	13S1P
Total number of cells:	108	120	132	144	156
<b>Standard charge method:</b>					
Charge power (kW):	54.2592	60.288	66.3168	72.3456	78.3744
End of charge voltage (V):	383.4	426	468.6	511.2	553.8
<b>Standard discharge method:</b>					
Discharge power (kW):	54.2592	60.288	66.3168	72.3456	78.3744
End of discharge voltage (V):	313.2	348	382.8	417.6	452.4

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Ratings & Principle Characteristics:

Model:	SigenStack M2-0.5C-BST-14/168.81 kWh	SigenStack M2-0.5C-BST-15/180.86 kWh	SigenStack M2-0.5C-BST-16/192.92 kWh	SigenStack M2-0.5C-BST-17/204.98 kWh	SigenStack M2-0.5C-BST-18/217.04 kWh
Rated capacity (Ah):	314	314	314	314	314
Rated energy (kWh):	168.81	180.86	192.92	204.98	217.04
Nominal voltage (V):	537.6	576	614.4	652.8	691.2
Weight(kg):	1555	1660.5	1766	1871.5	1977
Module series and/or parallel configuration:	14S1P	15S1P	16S1P	17S1P	18S1P
Total number of cells:	168	180	192	204	216
<b>Standard charge method:</b>					
Charge power (kW):	84.4032	90.432	96.4608	102.4896	108.5184
End of charge voltage (V):	596.4	639	681.6	724.2	766.8
<b>Standard discharge method:</b>					
Discharge power (kW):	84.4032	90.432	96.4608	102.4896	108.5184
End of discharge voltage (V):	487.2	522	556.8	591.6	626.4

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Ratings & Principle Characteristics:

Model:	SigenStack M2-0.5C-BST-19/229.09 kWh	SigenStack M2-0.5C-BST-20/241.15 kWh	SigenStack M2-0.5C-BST-21/253.21 kWh	SigenStack M2-0.5C-BST-22/265.27 kWh	SigenStack M2-0.5C-BST-23/277.32 kWh
Rated capacity (Ah):	314	314	314	314	314
Rated energy (kWh):	229.09	241.15	253.21	265.27	277.32
Nominal voltage (V):	729.6	768	806.4	844.8	883.2
Weight(kg):	2082.5	2188	2293.5	2399	2504.5
Module series and/or parallel configuration:	19S1P	20S1P	21S1P	22S1P	23S1P
Total number of cells:	228	240	252	264	276
<b>Standard charge method:</b>					
Charge power (kW):	114.5472	120.576	125	125	125
End of charge voltage (V):	809.4	852	894.6	937.2	979.8
<b>Standard discharge method:</b>					
Discharge power (kW):	114.5472	120.576	125	125	125
End of discharge voltage (V):	661.2	696	730.8	765.6	800.4

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Ratings & Principle Characteristics:

Model:	SigenStack M2-0.5C-BST-24/289.38 kWh	SigenStack M2-0.5C-BST-25/301.44 kWh	SigenStack M2-0.5C-20/241.15 kWh	SigenStack M2-0.5C-21/253.21 kWh	SigenStack M2-0.5C-22/265.27 kWh
Rated capacity (Ah):	314	314	314	314	314
Rated energy (kWh):	289.38	301.44	241.15	253.21	265.27
Nominal voltage (V):	921.6	960	768	806.4	844.8
Weight(kg):	2610	2715.5	2188	2293.5	2399
Module series and/or parallel configuration:	24S1P	25S1P	20S1P	21S1P	22S1P
Total number of cells:	288	300	240	252	264
<b>Standard charge method:</b>					
Charge power (kW):	125	125	120.576	125	125
End of charge voltage (V):	1022.4	1065	852	894.6	937.2
<b>Standard discharge method:</b>					
Discharge power (kW):	125	125	120.576	125	125
End of discharge voltage (V):	835.2	870	696	730.8	765.6

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Ratings & Principle Characteristics:

Model:	SigenStack M2-0.5C-23/277.32 kWh	SigenStack M2-0.5C-24/289.38 kWh	SigenStack M2-0.5C-25/301.44 kWh	SigenStack M2-1C-BST-4/48.23 kWh	SigenStack M2-1C-BST-5/60.29 kWh
Rated capacity (Ah):	314	314	314	314	314
Rated energy (kWh):	277.32	289.38	301.44	48.23	60.29
Nominal voltage (V):	883.2	921.6	960	153.6	192
Weight(kg):	2504.5	2610	2715.5	500	605.5
Module series and/or parallel configuration:	23S1P	24S1P	25S1P	4S1P	5S1P
Total number of cells:	276	288	300	48	60
<b>Standard charge method:</b>					
Charge power (kW):	125	125	125	48.23	60.29
End of charge voltage (V):	979.8	1022.4	1065	170.4	213
<b>Standard discharge method:</b>					
Discharge power (kW):	125	125	125	48.23	60.29
End of discharge voltage (V):	800.4	835.2	870	139.2	174

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Ratings & Principle Characteristics:

Model:	SigenStack M2-1C-BST-11/132.63 kWh	SigenStack M2-1C-BST-12/144.69 kWh	SigenStack M2-1C-BST-13/156.75 kWh	SigenStack M2-1C-BST-14/168.81 kWh	SigenStack M2-1C-BST-15/180.86 kWh
Rated capacity (Ah):	314	314	314	314	314
Rated energy (kWh):	132.63	144.69	156.75	168.81	180.86
Nominal voltage (V):	422.4	460.8	499.2	537.6	576
Weight(kg):	1238.5	1344	1449.5	1555	1660.5
Module series and/or parallel configuration:	11S1P	12S1P	13S1P	14S1P	15S1P
Total number of cells:	132	144	156	168	180
<b>Standard charge method:</b>					
Charge power (kW):	125	125	125	125	125
End of charge voltage (V):	468.6	511.2	553.8	596.4	639
<b>Standard discharge method:</b>					
Discharge power (kW):	125	125	125	125	125
End of discharge voltage (V):	382.8	417.6	452.4	487.2	522

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Ratings & Principle Characteristics:

Model:	SigenStack M2-1C-BST-6/72.35 kWh	SigenStack M2-1C-BST-7/84.4 kWh	SigenStack M2-1C-BST-8/96.46 kWh	SigenStack M2-1C-BST-9/108.52 kWh	SigenStack M2-1C-BST-10/120.58 kWh
Rated capacity (Ah):	314	314	314	314	314
Rated energy (kWh):	72.35	84.4	96.46	108.52	120.58
Nominal voltage (V):	230.4	268.8	307.2	345.6	384
Weight(kg):	711	816.5	922	1027.5	1133
Module series and/or parallel configuration:	6S1P	7S1P	8S1P	9S1P	10S1P
Total number of cells:	72	84	96	108	120
<b>Standard charge method:</b>					
Charge power (kW):	72.35	84.4	96.46	108.52	120.58
End of charge voltage (V):	255.6	298.2	340.8	383.4	426
<b>Standard discharge method:</b>					
Discharge power (kW):	72.35	84.4	96.46	108.52	120.58
End of discharge voltage (V):	208.8	243.6	278.4	313.2	348

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Ratings & Principle Characteristics:

Model:	SigenStack M2-1C-BST-16/192.92 kWh	SigenStack M2-1C-BST-17/204.98 kWh	SigenStack M2-1C-BST-18/217.04 kWh	SigenStack M2-1C-BST-19/229.09 kWh	SigenStack M2-1C-BST-20/241.15 kWh
Rated capacity (Ah):	314	314	314	314	314
Rated energy (kWh):	192.92	204.98	217.04	229.09	241.15
Nominal voltage (V):	614.4	652.8	691.2	729.6	768
Weight(kg):	1766	1871.5	1977	2082.5	2188
Module series and/or parallel configuration:	16S1P	17S1P	18S1P	19S1P	20S1P
Total number of cells:	192	204	216	228	240
<b>Standard charge method:</b>					
Charge power (kW):	125	125	125	125	125
End of charge voltage (V):	681.6	724.2	766.8	809.4	852
<b>Standard discharge method:</b>					
Discharge power (kW):	125	125	125	125	125
End of discharge voltage (V):	556.8	591.6	626.4	661.2	696

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Ratings & Principle Characteristics:

Model:	SigenStack M2-1C-BST-21/253.21 kWh	SigenStack M2-1C-BST-22/265.27 kWh	SigenStack M2-1C-BST-23/277.32 kWh	SigenStack M2-1C-BST-24/289.38 kWh	SigenStack M2-1C-BST-25/301.44 kWh
Rated capacity (Ah):	314	314	314	314	314
Rated energy (kWh):	253.21	265.27	277.32	289.38	301.44
Nominal voltage (V):	806.4	844.8	883.2	921.6	960
Weight(kg):	2293.5	2399	2504.5	2610	2715.5
Module series and/or parallel configuration:	21S1P	22S1P	23S1P	24S1P	25S1P
Total number of cells:	252	264	276	288	300
<b>Standard charge method:</b>					
Charge power (kW):	125	125	125	125	125
End of charge voltage (V):	894.6	937.2	979.8	1022.4	1065
<b>Standard discharge method:</b>					
Discharge power (kW):	125	125	125	125	125
End of discharge voltage (V):	730.8	765.6	800.4	835.2	870

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