



Test Report

Report No.: SZES220800472701
Date: 2022-09-15

1. Function / Description:
Energy Storage Battery

2. Ratings:

Model: 5K3-XP-EU
Rated Voltage: 51.2 V
Voltage Range: 46.5 V-58.4 V
Rated Capacity: 105 Ah
Combination: 1P16S

3. Test information:

Possible test case verdicts:
- test case does not apply to the test object: N/A (Not Applicable)
- test object does meet the requirement: P (Pass)
- test object does not meet the requirement: F (Fail)

Testing Laboratory:
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
No.2, Jianghao Industrial Factory Area, No.430, Jihua Road, Bantian Street, Longgang District, Shenzhen, Guangdong, China

Test project was received on 2022-08-08
Tests were performed from 2022-08-22 to 2022-08-23
Test ambient temperature: 20 °C-25 °C.



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4. Test procedure and result:

Clause	Requirement + Test	Result - Remark	Verdict
4	1C TEST		P
4.1	Charge preparation phase		P
	Starting from the SOC of 0%; Cell temperature is 20 °C-25 °C; Charge at 0.2C (20A) constant current up the SOC of 04.5Ah (105Ah × 00%), and continue charging at 0.05C (5A) constant current up to the 60V or overvoltage protection (contactor open); Keep in climatic cell at 20 °C -25 °C to cool down the cells up to 25°C; The Battery is ready to be tested for capacity test.	Test result see table 4.1	P
4.2	1C test		P
	Discharge at 1C (100A) constant current to the voltage of 43.0V; Record the discharge capacity.	Test result see table 4.2	P



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4.1	TABLE: Charge preparation phase		--
Sample No.	OCV at start of test (V dc)	Charge capacity (Ah)	
M1	47.39	107.81	

4.2	TABLE: 1C test		--
Sample No.	Discharge capacity (Ah)	Maximum temperature of cell (°C)	
M1	106.45	45.0	

Supplementary information:
Only the test results were recorded



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