



CSA GROUP
Laboratory Test Data - UL 9540A

Master Contract:302680
Report: 80204927
Project: 80204927

Apr.16, 2024

Mr. Yong Zhou
Project manager
FOXESS CO., LTD.
No.939,Jinhai Third Road,
New Airport Industry Area
Longwan District
Wenzhou,Zhejiang 325025
China

Subject: Lithium-ion Rechargeable battery module, model EQ4000 (UL 9540A Test Report)

Dear Mr. Yong Zhou

We are pleased to inform you that testing of your product per UL 9540A has been completed. Applicable test(s) was witnessed at ChuWeiNeng Testing Technology (Shanghai) Co.Ltd, and witnessed by CSA Group – Kunshan. Module level of test was conducted on the sample provided and the results are enclosed in the test report.

Note: This Test Report is not an Authorization to apply the CSA Mark to the product. The results contained in the report(s) provided are contingent upon the characteristics of the actual sample(s) used in the investigation. In the absence of a continuing inspection service, CSA provides no assurance, expressed or implied, that the contents of the report are applicable to reproductions of the sample(s). Use or reproduction of the CSA name, logo, or trademark is not permitted without the prior written consent of CSA. No references can be made to this report when using the results of this investigation for the purposes of advertising, promotion or litigation, without the prior written consent of CSA.

Please examine the enclosed documents and contact me if you have any questions or would like us to make any changes.

On behalf of CSA, I would like to thank you for your business and offer our services for your future needs.

Yours truly,

Evan Zhang
CSA –CCIC-CSA International Certification Co., Ltd. Kunshan Branch
Building 8, Tsinghua Science Park, No. 1666 Zu chongzhi Rd (S), Kunshan, Jiangsu (215347)



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Encl. [UL 9540A Test Report]

Att.1 - Module charge/discharge conditioning graphs

Att.2 - Photos

Att.3 - Cell temperature/voltage graph during testing

Att.4 - Heat Release Rate graphs

Att.5 - Gas generation graphs

Att.6 - Smoke release graph

Att.7 - Notable observation during test

Att.8 - Video (separated file)



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Laboratory Test Data - UL 9540A Checklist and Test Result (Module Level)
ORIGINAL TEST DATA

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Master Contract:	302680	Model:	EQ4000	Page number 1 of 22
Project / Network:	80204927	Description:	Lithium-ion rechargeable battery module	

Standard(s): ANSI/CAN/UL 9540A:2019 Fourth Edition, Dated November 12, 2019 - Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems

Testing Laboratory Name:	CCIC-CSA International Certification Co.,Ltd. Kunshan Branch
Address:	Building 8, Tsinghua Science Park, No. 1666 Zu chongzhi Rd(S), Kunshan, Jiangsu(215347)
Testing Program:	Custom Test : Cover Latter <input checked="" type="checkbox"/> Testing Only <input type="checkbox"/>

If tests were performed at another facility, then described below:

Testing Laboratory Name:	ChuWeiNeng Testing Technology (Shanghai) Co.Ltd
Address:	Building 3, No.1065 Beihe Road, Jiading District, Shanghai
Facility Qualification Number:	N/A

Customer:	As above / or describe otherwise FOXESS CO., LTD.	
Address:	No.939,Jinhai Third Road,New Airport Industry Area,Longwan District, Wenzhou,Zhejiang 325025,China	

Tested By:	Jiaming Huang, Technician Name, Title	
	<u>Jiaming Huang</u> Signature	2024-03-19 Date (YYYY-MM-DD)
Reviewed by:	<input checked="" type="checkbox"/> Jarvis Shen, Certifier	
Witnessed by:	<u>Evan Zhang/Jarvis Shen</u> Signature	2024-03-19 Date (YYYY-MM-DD)

Version6.2 : 2023-06-15



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Master Contract:	302680	Model:	EQ4000	Page number 2 of 22
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Cell Level Test Summary	
Name of test laboratory perform cell level testing:	UL(Changzhou) Quality Technical Service Co.,LTD
Unique identification of test report:	UL, Project Number:4790517961
Standard and its edition used for testing:	UL9540A,4 th edition
Manufacturer:	REPT BATTERO Energy Co.,Ltd
Brand name / Trademark:	N/A
Model number:	CB59
Nominal cell voltage, (V)	3.2
Cell capacity, (Ah)	72
Cell chemistry:	LFP
Physical format of cell:	Prismatic
Approximate dimension, (mm)	Depth:39.72±1;Width:148.66±1;Height:110.01±1
Mass, (g)	1380±150
Method used to initiate thermal runaway:	External heating
Average temperature at which cell first vented excluding gas collection sample, (°C)	154
Average temperature prior to thermal runaway excluding gas collection sample, (°C)	211
Flammable gas generation, (Liter)	---
Total gas generation, (Liter)	41.8
Lower flammability limit (LFL) at ambient temperature (25 ± 5°C), (%)	7.95
Lower flammability limit (LFL) at average gas vent temperature, (%)	6.95
Burning velocity, (Cm/Sec)	125.8
Maximum pressure P _{max} , (psig)	94.8
Gas composition:	



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Cell Level Test Summary		
	Gas	Measured %
Carbon Monoxide	CO	8.949
Carbon Dioxide	CO2	31.946
Hydrogen	H2	51.599
Methane	CH4	4.029
Acetylene	C2H2	0.149
Ethylene	C2H4	2.120
Ethane	C2H6	0.693
Propadiene (Allene)	C3H4	N.D
Propylene	C3H6	0.232
Propane	C3H8	0.074
-	C4 (Total)	0.140
-	C5 (Total)	0.017
-	C6 (Total)	0.006
1-Heptene	C7H14	N.D
Styrene	C8H8	N.D
Benzene	C6H6	0.002
Toluene	C7H8	N.D
Dimethyl Carbonate	C3H6O3	0.035
Ethyl Methyl Carbonate	C4H8O3	0.007
Diethyl Carbonate	C5H10O3	N.D
Total	-	100



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Module Level Test Summary	
Manufacturer:	FOXESS CO., LTD.
Brand name / Trademark:	
Model number:	EQ4000
Nominal voltage rating, (V)	57.6
Nominal capacity rating, (Kwh)	3.97
Approximate dimension, (mm)	WxHxD:570mmx138mmx380mm
Module certification available? (Yes/No)	Yes
Module evaluated with its associated BESS? (Yes/No)	Yes
Standard(s) used to certify product:	UL 1973 3 rd edition
Certification organization name and its certificate number:	CSA, Project No.80182814
Module enclosure material:	Metallic
Electrical configuration of cell in module:	18s-1p
Number of cells in module:	18
Method used to initiate thermal runaway:	External heating
Number of cells used for initiating thermal runaway:	1
Number of cells exhibited thermal runaway within module:	3
Cell to cell propagation condition:	Yes
Peak chemical heat release rate, (kW)	No flame observed
Flammable gas generation, (Liter)	97.6
Total gas generation, (Liter)	124.1
Weight loss, (%)	1.1
Gas composition:	CO ₂ (21.35%); THC (70.99%); CO(7.65%); H ₂ (below detectable limit)
Additional Information:	The sample to be tested is provided by the customer.



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Master Contract:	302680	Model:	EQ4000	Page number 5 of 22
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Performance Module Level Test		
Requirement	Comments	Verdict
Thermal runaway was contained by module design.	Thermal runaway was contained by module design with no fire or explosion observed during test	P
Cell vent gas was nonflammable as determined by the cell level test.	Cell vent gas was flammable as determined by the cell level test	F
Summary of Result:		
Unit level testing is required based on above performance condition indicated in Section 8.4 of UL 9540A 4 th Edition.		

Possible test case verdicts:

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



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Clause	Requirement + Test	Result - Remark		Verdict
		Construction		
5	General	---	---	---
5.2	Module	---	---	---
5.2.1	Enclosure material:	Metallic	---	---
	General layout of module contents:	See attachment 2 for details	---	---
	Electrical configuration of cell in module:	18s-1p	---	---
	Number of cells in module:	18	---	---
5.2.2	Module certification available? (Yes/No)	Yes, Project No.80182814	---	---
	Module evaluated with its associated BESS? (Yes/No)	Yes	---	---
	Standard(s) used to certify product:	UL 1973, 3 rd edition	---	---
5.2.3	Module Level Test Report	See below	---	---
Performance				
8	Module Level	---	---	---
8.1	Sample	---	---	---
8.1.1	Prior to testing, module sample was conditioned for minimum 2 charge (100% SOC) - discharge (Specified end of discharge voltage) cycle as per manufacturer specified method.	See attachment 1 for details	P	
	Module was functional after minimum 2 charge discharge cycle.	See attachment 1 for details	P	
	Ambient temperature during module conditioning.	See table 2 for details	P	
8.1.2	The tested module had 100% SOC at the start of the test. The samples were allowed to rest for a minimum of one hour and a maximum of 8 h before the start of the test.	See table 2 for details	P	
8.1.3	Electronics and software controls such as BMS were not relied upon for this testing.	Confirmed	P	
8.2	Test method	---	---	---
8.2.1	Ambient temperature during module testing.	19.4°C~25.7°C	P	
8.2.2	Test was conducted under smoke collection hood	Confirmed	P	
8.2.3	Weight of module was recorded before and after testing	See table 3 for details	P	
8.2.4	Number of cells forced into thermal runaway inside module:	See below	P	
	Number of cells forced into thermal runaway were able to create condition of cell-to-cell propagation	Total 3 cells exhibited thermal runaway due to 1 initiating cell failed	P	

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Clause	Requirement + Test	Result - Remark	Verdict
	Location of cells forced into thermal runaway were selected to present greatest thermal exposure to adjacent cell.	See attachment 2 for details	P
	Factors consider when selecting location of cells inside module:	<input checked="" type="checkbox"/> Heat transfer was maximized to other cells. <input type="checkbox"/> Cooling by ventilation was restricted or limited. <input type="checkbox"/> Thermal sensors, detection and suppression discharge points were remote. <input type="checkbox"/> Other(explain):	P
8.2.5	Method used to initiate thermal runaway during cell level was used at the module level of testing	Confirmed	P
8.2.6	Occurrence of thermal runaway was verified by sustained temperature above the cell surface temperature at the onset of thermal runaway.	Confirmed	P
8.2.7	Module was placed on top of a noncombustible horizontal surface	Confirmed	P
	Module orientation was representative of its intended final installation	Confirmed	P
8.2.8	Chemical heat release rate of the module in thermal runaway was measured with oxygen consumption calorimetry	Confirmed	P
8.2.9	Chemical heat release rate was measured for the duration of the test	Confirmed	P
8.2.10	Equipment used for chemical heat release rate measurement:	<input checked="" type="checkbox"/> Paramagnetic oxygen analyzer <input checked="" type="checkbox"/> Non-dispersive infrared carbon dioxide analyzer <input checked="" type="checkbox"/> Non-dispersive infrared carbon monoxide analyzer <input checked="" type="checkbox"/> velocity probe <input checked="" type="checkbox"/> Type K thermocouple <input type="checkbox"/> Other(explain):	P
	The instrumentation was located in the exhaust duct.	Confirmed	P
8.2.11	Heat release rate was calculated as per following formula.	Confirmed	P
	$HRR_1 = \left[E \times \phi - (E_{co} - E) \times \frac{1-\phi}{2} \times \frac{X_{co}}{X_{O_2}} \right] \times \frac{\dot{m}_e}{1 + \phi \times (\alpha - 1)} \times \frac{M_{O_2}}{M_a} \times (1 - X_{H_2O}^a) \times X_{O_2}^a$		



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Clause	Requirement + Test	Result - Remark	Verdict
8.2.12	The hydrocarbon content of the vent gas was measured using flame ionization detection.	Confirmed	P
	Hydrogen gas was measured with a palladium-nickel thin-film solid state sensor.	Confirmed	P
8.2.13	The hydrocarbon components of the vent gas composition were additionally measured using a Fourier-Transform Infrared Spectrometer with a minimum resolution of 1 cm ⁻¹ and a path length of at least 2 m (6.6 ft), or an equivalent gas analyzer.	FTIR analysis was not used in accordance with the Certification Requirement Decision: Corrections to gas measurement methods to make FTIR as an option for measuring hydrocarbon contents of gas emissions and to include Hydrogen measurements during the Unit Level Test. FTIR was considered redundant to the other gas measurement methods used.	N/A
	Velocity and temperature measurements respectively was obtained in the exhaust duct of the heat release rate calorimeter using equipment specified in 8.2.10.	Confirmed	P
8.2.14	Light transmission in the exhaust duct was measured for the duration of the test.	Confirmed	P
8.2.15	Smoke release rate was calculated as per following formula. $SRR = 2.303 \left(\frac{V}{D} \right) \log_{10} \left(\frac{I_o}{I} \right)$	Confirmed	P
8.3	Module level test report	---	---
8.3.1	Module level report include information indicated in item a) through o)	Confirmed	P



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Table 1 – Module charge/discharge specification

Charging method	CC-CV	Discharging method	CC-CV
Charge current, (Adc)	36	Discharge current, (Adc)	36
Charge voltage, (Vdc)	65.7	Discharge voltage, (Vdc)	52.2
Charge end current, (Adc)	2	Discharge end current, (Adc)	2
Manufacturer recommended charge temperature, (°C)	0~+55	Manufacturer recommended discharge temperature, (°C)	-10~+55

Table 2 – Module rest duration

Sample Number	Final charge end time		Test start time	
	Date (YYYY-MM-DD)	Time (HH:MM AM/PM)	Date (YYYY-MM-DD)	Time (HH:MM AM/PM)
202403028	2024-03-19	13:52 PM	2024-03-19	16:26 PM

Ambient temperature during Module conditioning

Ambient Lab Temperature, (°C)	Relative Humidity, (%RH)
22.0 to 25.4	45.0 to 50.0

Table 3 – Module level test

Sample Number:	202403028
Ambient Lab Temperature, (°C)	20.9
Relative Humidity, (%RH)	47.0
Number of cells used for initiating thermal runaway:	1
Weight of module before testing, (kg)	37.2
Weight of module after testing, (kg)	36.8
Weight loss, (%)	1.1
Open circuit voltage before test, (Vdc)	61.0
Module charge capacity after final charge cycle, (Ahr)	71.1
External film heater ramp rate, (°C/min)	4.5
Other method used to initiate thermal runaway:	N/A
Location of cell for initiating thermal runaway:	See attachment 2 for details
Number of cells exhibited thermal runaway within module:	3
Location of cell exhibited thermal runaway within module:	See attachment 2 for details
Cell to cell propagation condition:	Yes
Peak chemical heat release rate, (kW)	No flame observed
Flammable gas generation, (Liter)	Before Flaming: 97.6 After Flaming: ---



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Table 3 – Module level test

Total gas generation, (Liter)	Before Flaming: 124.1 After Flaming: ---
Peak smoke release rate, (m ² /sec)	0.25
Total smoke release, (m ²)	67.56

Gas composition

Gas Component		Volume Released (Before Flaming) (Liter)	Volume Released (After Flaming) (Liter)
Carbon Monoxide	CO	9.5	---
Carbon Dioxide	CO ₂	26.5	---
Hydrogen(palladium-nickel thin-film solid state sensor)	H ₂	Below detectable limit	---
Total hydrocarbons (equivalent to CH ₄)	---	88.1	---



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Attachments

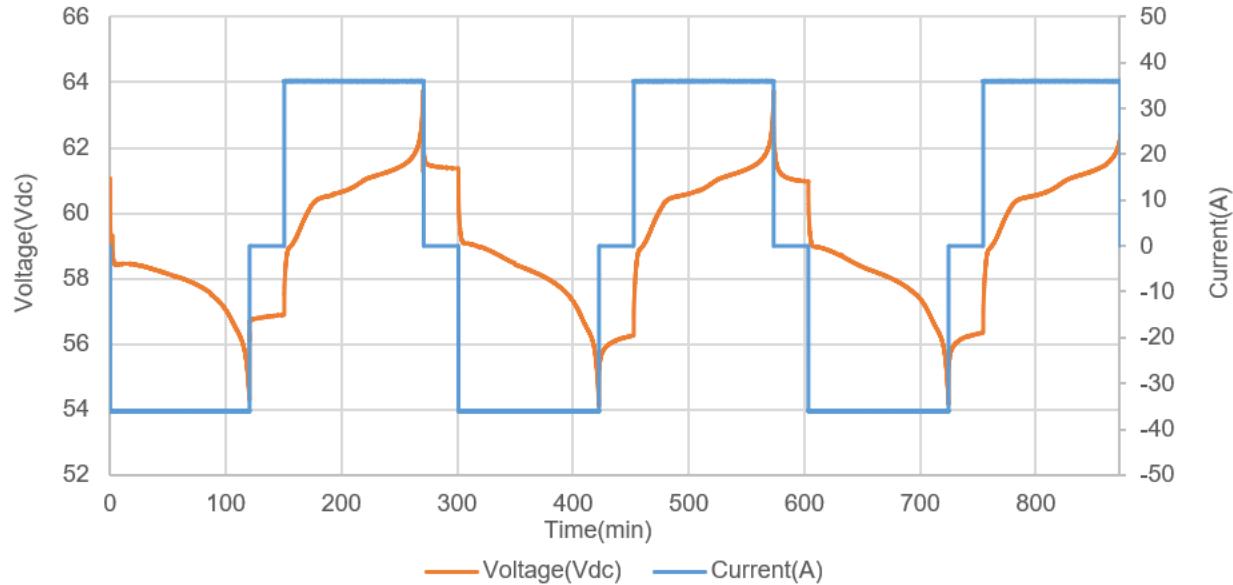
Index of Attachments		
No.	Name	Page
1	Module charge/discharge conditioning graphs	12
2	Photos	13~16
3	Cell temperature/voltage graph during testing	17~18
4	Heat Release Rate graphs	19
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7	Notable observation during test	22
8	Video (separate file)	MP4

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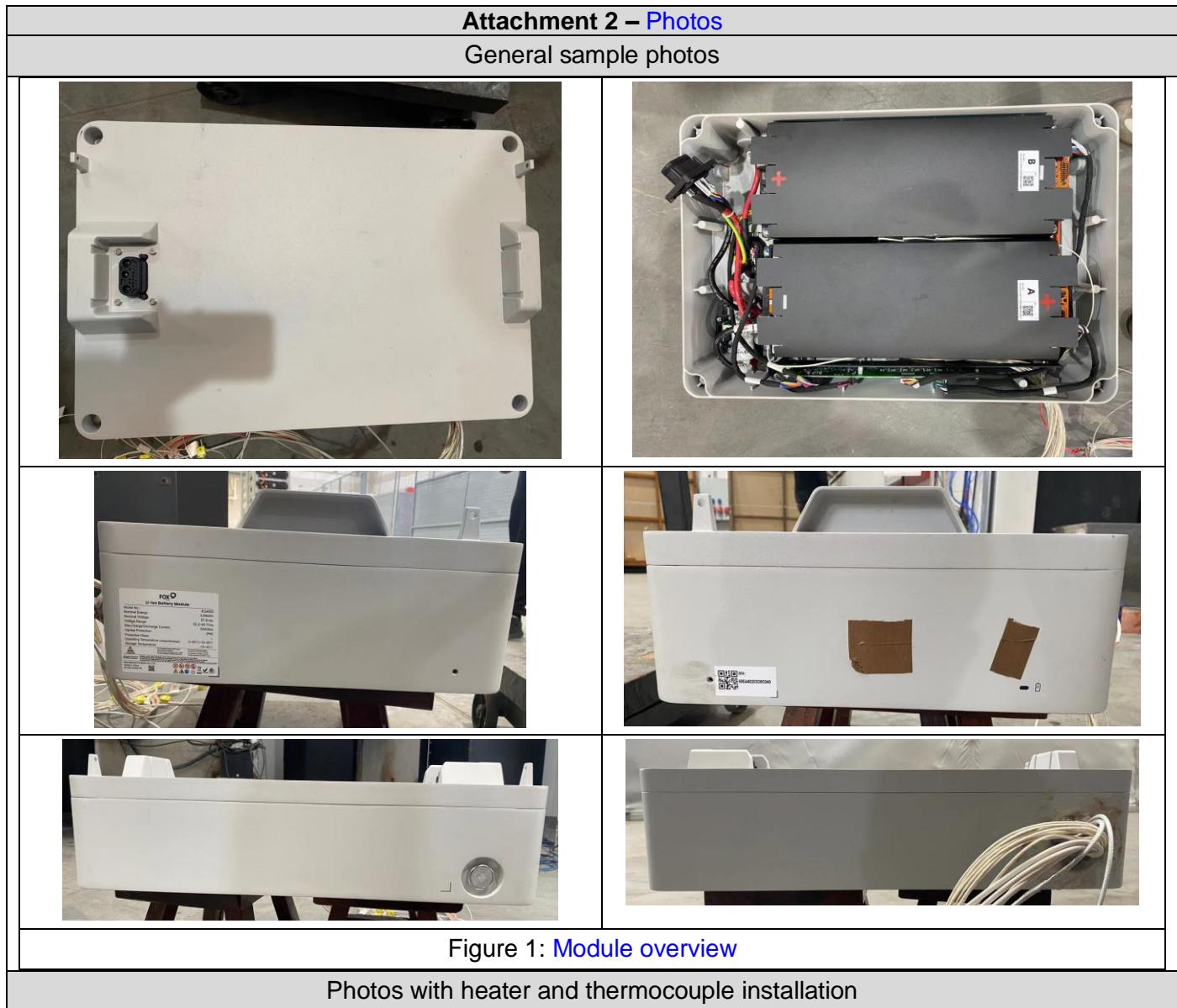
Attachment 1 - Module charge/discharge conditioning graphs



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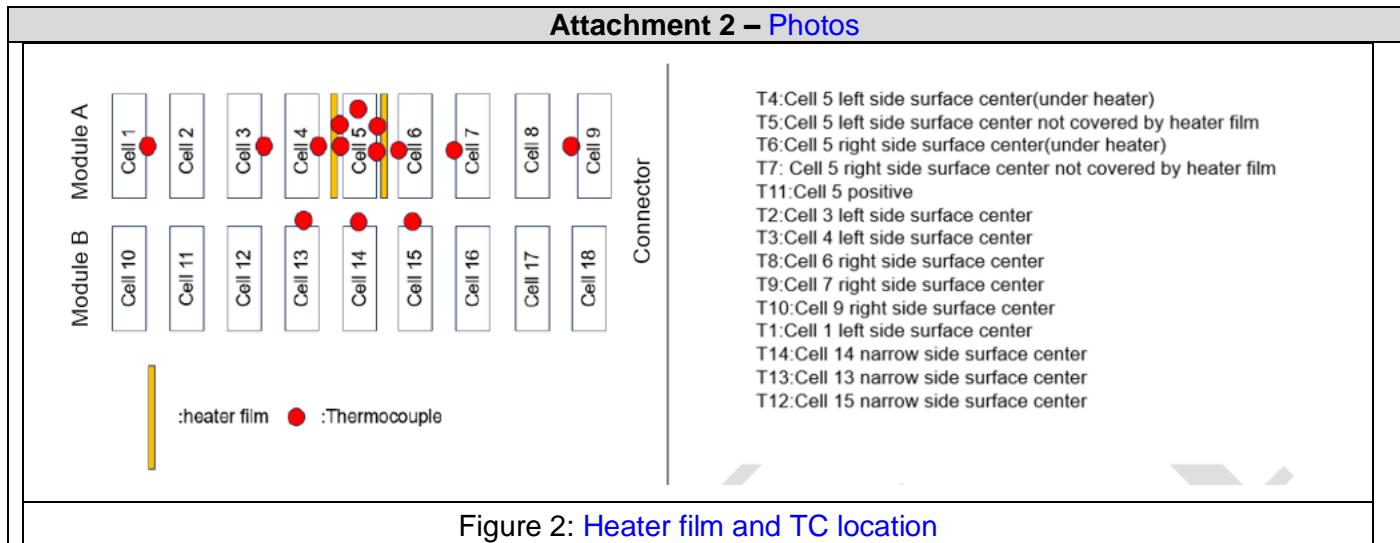


Figure 2: Heater film and TC location

Photos during test in progress



Figure 3: At test start (Time in 16:26)



Figure 4: During cell venting (Time in 17:01)



Figure 5: During thermal runaway (Time in 17:17)



Figure 6: During thermal runaway (Time in 17:19)

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Attachment 2 – Photos



No Text on this Box

Figure 7: During thermal runaway (Time in 17:20)

No Text on this Box

Photos after test



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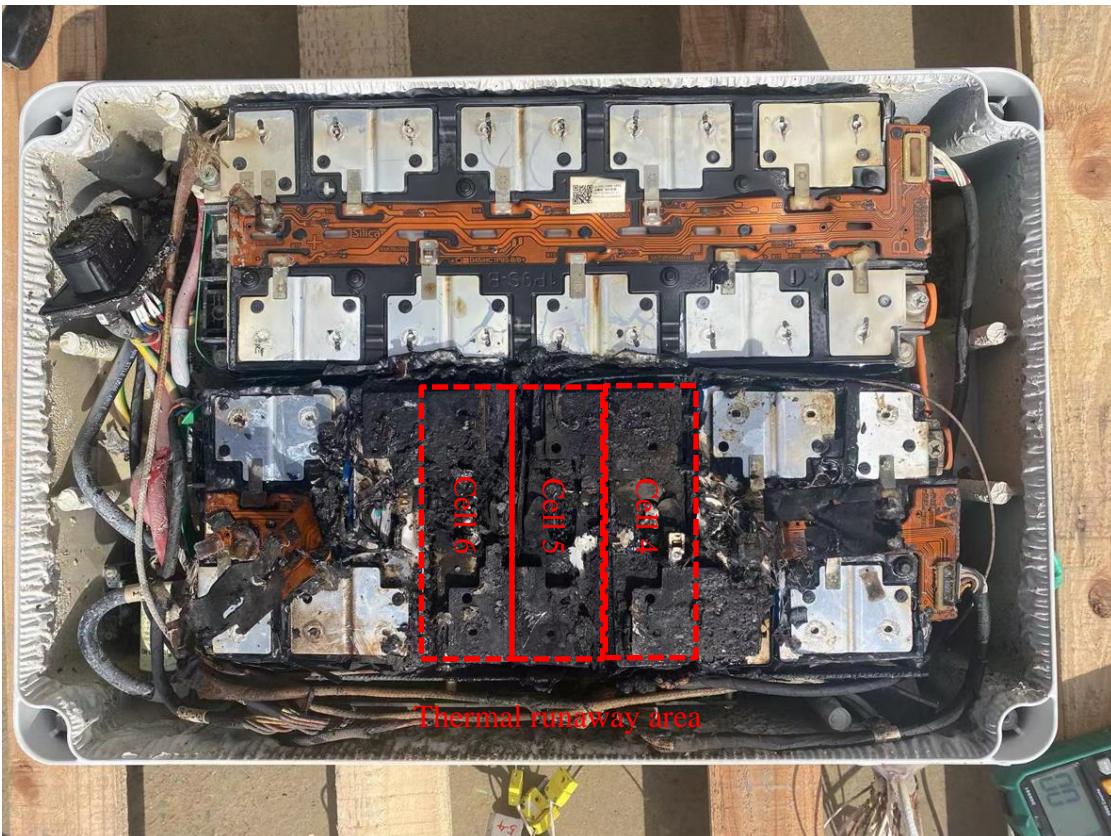
Attachment 2 – Photos

Figure 8: Module after test overview

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Attachment 3 - Cell temperature/voltage graph during testing

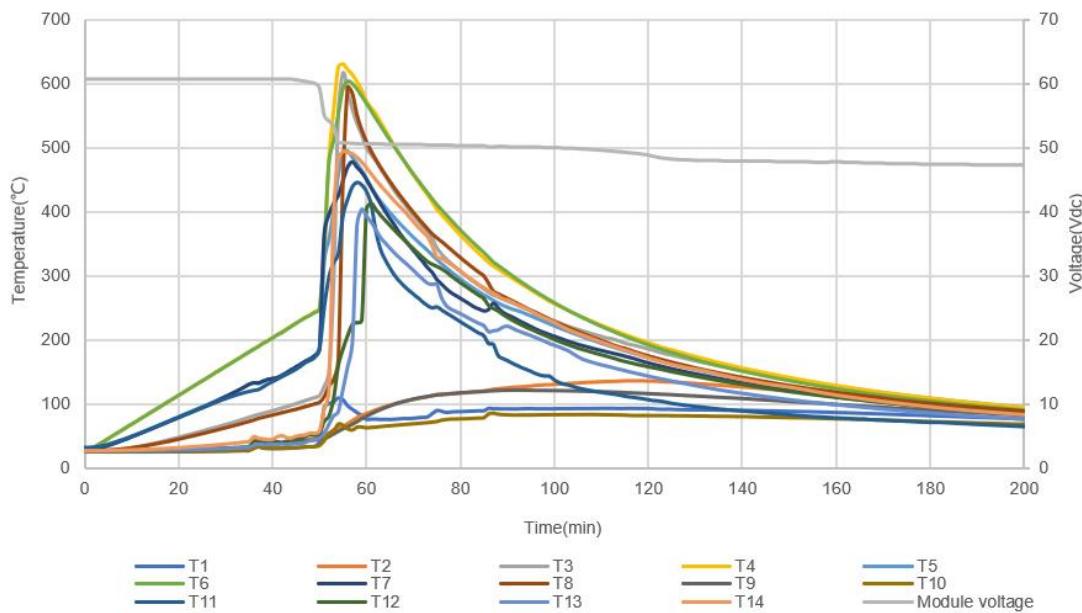


Figure 1: Initiating Cell temperature and module voltage

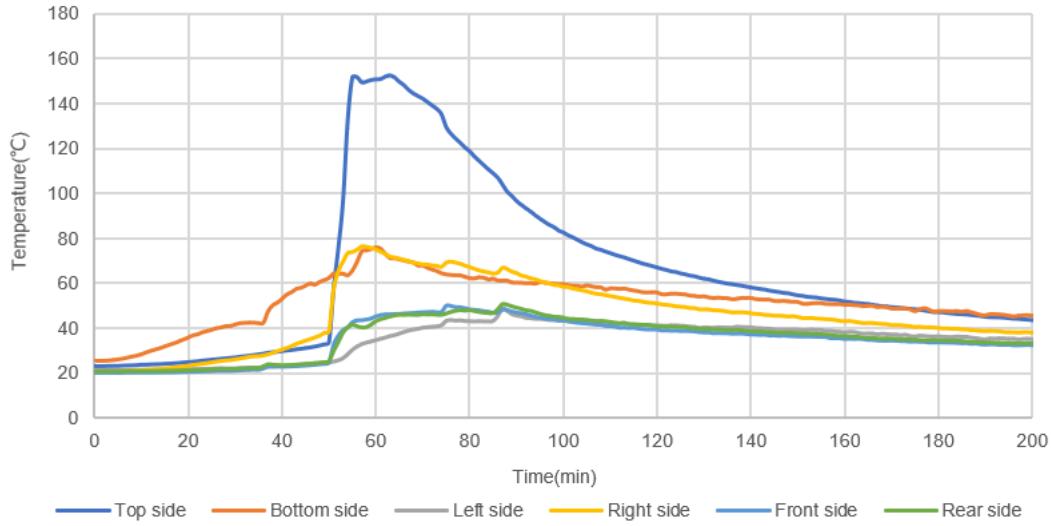


Figure 2: Module enclosure temperature



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Attachment 3 - Cell temperature/voltage graph during testing

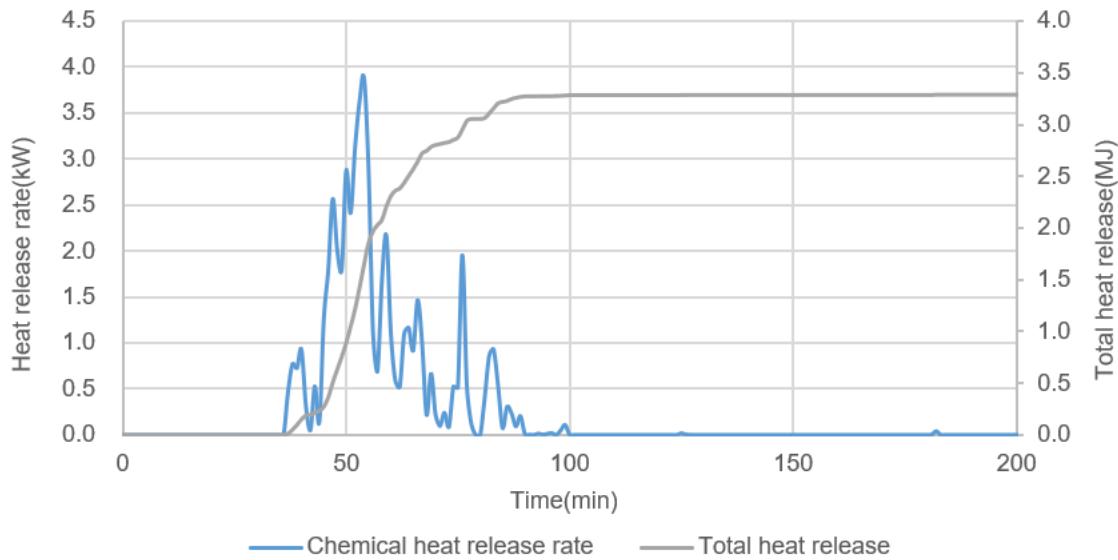
Maximum temperature measurement	
Location	Measured maximum temperature (°C)
Maximum temperature within module(Cell 5 left side under heater film)	630
Maximum temperature at Module enclosure (top surface)	152

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Attachment 4 - Heat Release Rate graphs

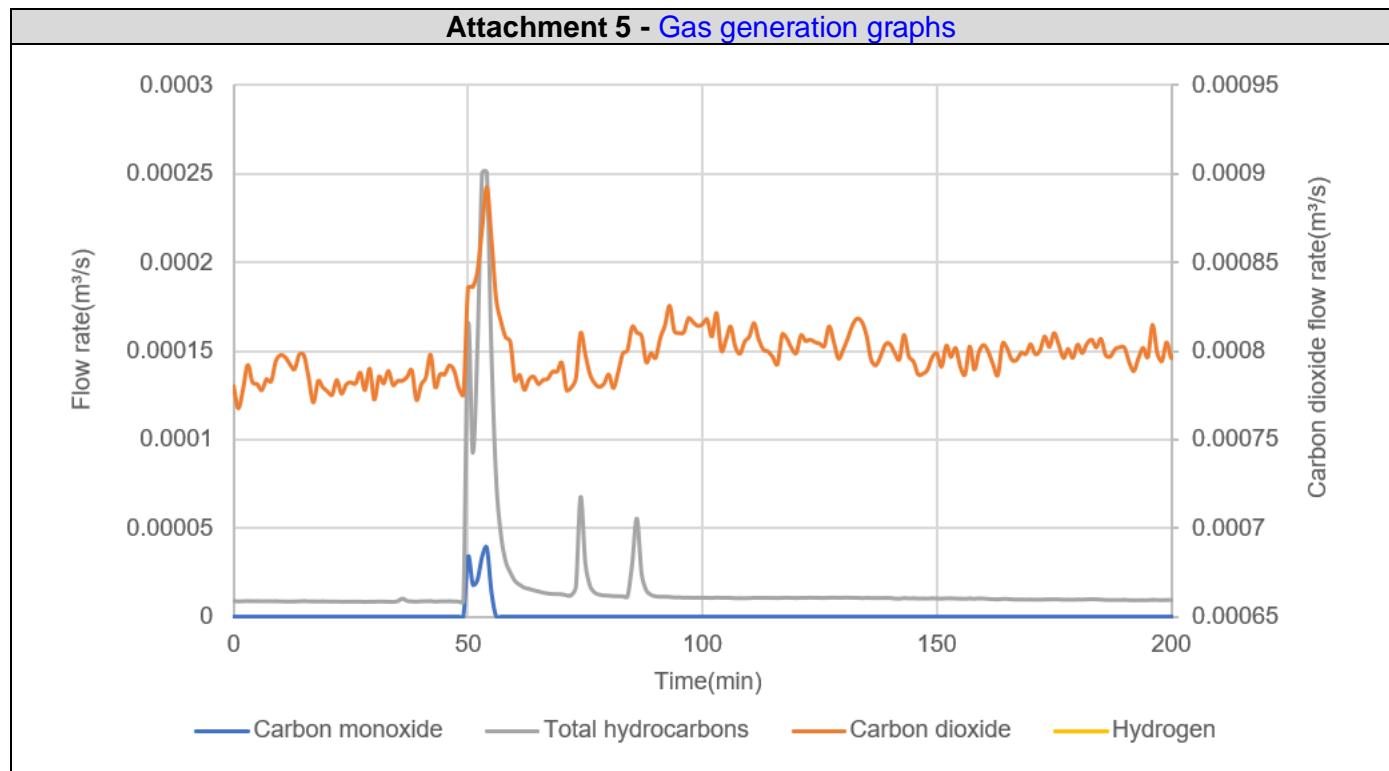


Note: No flame observed during test, so the heat release rate and Total Heat Release are identified as noise.

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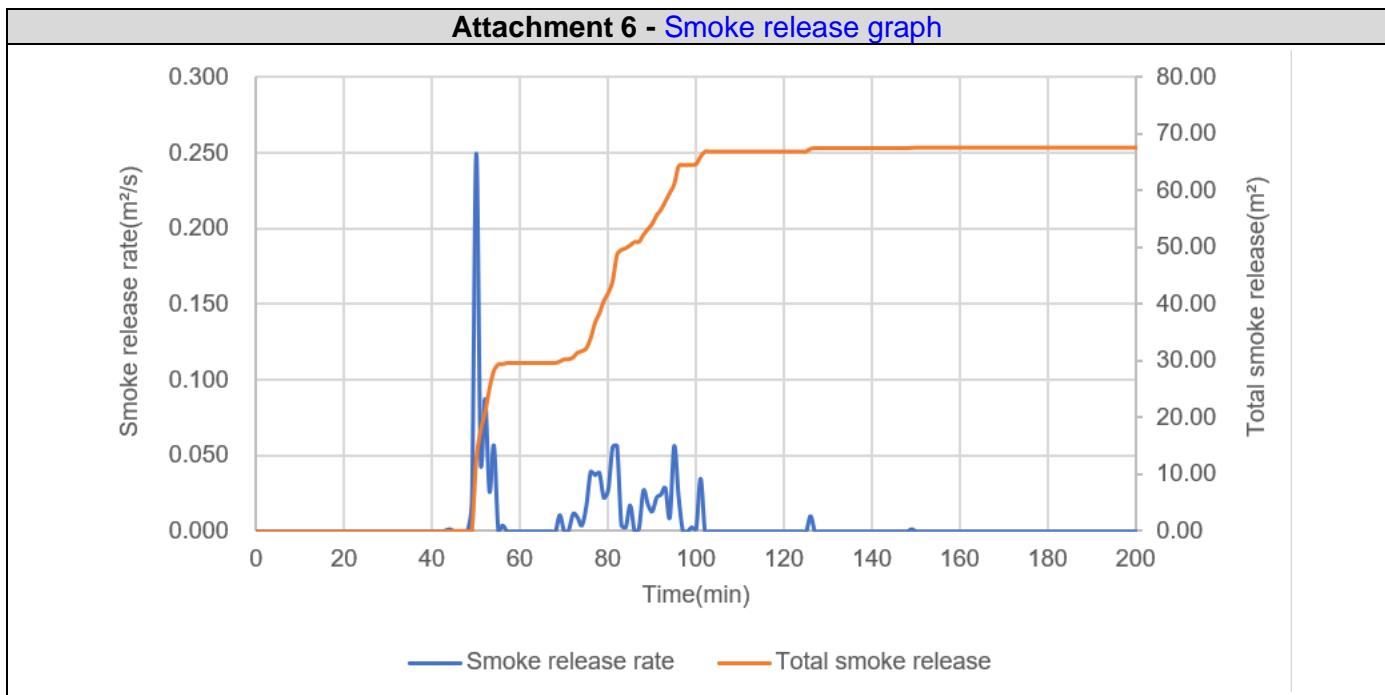
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Attachment 7 - Notable observation during test

Observation	Time from test start (mm/dd HH:MM:SS)	Comment
Test start	03/19 16:26:39	Two pieces of heater film on cell 5 was energized with thermal ramp 4.5°C/min
Venting/Thermal runaway	03/19 17:01:10	Cell 5 was venting with temperature dropped
Venting/Thermal runaway	03/19 17:17:03	Cell 5 was thermal runaway with smoke released and all of heater film was deenergized
Venting/Thermal runaway	03/19 17:19:05	Cell 4 was thermal runaway with smoke released
Venting/Thermal runaway	03/19 17:20:33	Cell 6 was thermal runaway with smoke released
Test end	03/20 08:30:00	Data acquisition stopped

End of Report....