

TEST REPORT

For

ANSI/CAN/UL 9540A

Report No. : CQES260400044801

Issue Date : 2026-04-24

Applicant : GoodWe Technologies Co., Ltd
: No.90 Zijin Road, New District, Suzhou, 215011, Jiangsu, China

Product Name : Rechargeable Li-ion battery system

Model : GW61.4-BAT-AC-G10, GW71.6-BAT-AC-G10,
GW81.9-BAT-AC-G10, GW92.1-BAT-AC-G10,
GW102.4-BAT-AC-G10, GW112.6-BAT-AC-G10,
GW61.4-BAT-AC-JP-G10, GW71.6-BAT-AC-JP-G10,
GW81.9-BAT-AC-JP-G10, GW92.1-BAT-AC-JP-G10,
GW102.4-BAT-AC-JP-G10

Rating : See Page 8

Test Standard : ANSI/CAN/UL 9540A:2026 Test Method for Evaluating
Thermal Runaway Fire Propagation in Battery Energy Storage
Systems
Sixth Edition, Dated March 13, 2026

Additional Information (if any) : Unit Level

Test Result : Refer to summary of test results page for details.

Tested by / Witnessed by

Kyle Tian

Kyle Tian
Project Engineer

Reviewed and Authorized by

Ryan Hu

Ryan Hu
Technical Manager



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Issuing Laboratory : SGS-CEC New Energy Technology (Chongqing) Co., Ltd.
Building 13 & 14, No. 1839, Ranjun Road, Shuangfu Street, Jiangjin District, Chongqing, China

Manufacturer : GoodWe Technologies Co., Ltd

Address : No.90 Zijin Road, New District, Suzhou, 215011, Jiangsu, China

Factory : Goodwe (Guangde) Power Supply Technology Co.,Ltd.

Address : No.8, Dongting Rd., Guangde Economic Development Zone, Anhui, China

Test object / Model : GW61.4-BAT-AC-G10, GW71.6-BAT-AC-G10, GW81.9-BAT-AC-G10, GW92.1-BAT-AC-G10, GW102.4-BAT-AC-G10, GW112.6-BAT-AC-G10, GW61.4-BAT-AC-JP-G10, GW71.6-BAT-AC-JP-G10, GW81.9-BAT-AC-JP-G10, GW92.1-BAT-AC-JP-G10, GW102.4-BAT-AC-JP-G10

Date of receipt : 2026-03-14

Sample No. : M1 to M4

Test Period : 2026-03-24 to 2026-04-04

Testing location : Shanghai W-lbeda Automotive Test Tech Co., Ltd.
No. 366, XingRong Road, Jiading District, Shanghai, China

Remark : Test results reported relate only to the items being tested.

Confidential level : ☒ Strictly Confidential
☐ Private and Confidential
☐ Public



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[Summary of Test results]

Cell Level Test
Cell model:
LF100LA
Project No.:
4790509108

Cell Design:	LF100LA
Thermal Runaway Methodology:	External heating
Cell Surface Temperature at Gas venting:	181 °C
Cell Surface Temperature at Thermal Runaway:	230 °C
Gas Composition:	Mainly hydrocarbon, H ₂ , CO, CO ₂
Lower Flammability Limit:	43.6 L
Burning Velocity:	8.25 Vol% at the ambient temperature 6.73 Vol% at the venting temperature
Pmax:	97.8 cm/s
Thermal Runaway was Induced in the Cell or not:	102.3 psig
Cell Vent Gas is Flammable or not in Air:	Induced

Remark: Information was cited from UL Project No.: 4790509108

Module Level Test
Module model:
N/A
Report No.:
N/A

Module Design:	N/A
Thermal Runaway Methodology:	N/A
External Flaming:	N/A
Locations of Flame Venting:	N/A
Flying Debris:	N/A
Peak Smoke Release Rate:	N/A
Gas Generation and Composition:	N/A
Thermal Runaway are Contained by the Module Design or not:	N/A
Cell Vent Gas is Flammable or not:	N/A
Cell to cell thermal runaway propagation was achieved or not:	N/A
Test Video File:	N/A

Unit Level Test
Unit model:
Refer to Page 1
Report No.:
CQES260400044801

Unit Design:	Refer to Page 1
Thermal Runaway Methodology:	External heating with film heaters
External Flaming:	No external flaming observed
Locations of Flame Venting:	No flame extension observed
Flying Debris:	No flying debris observed
Explosion or not:	No explosion observed
Max. Surface Temperature of Module in Target BESS Unit (averaged over 60 seconds):	23.9 °C
Max. Temperature Rise on Wall Surfaces (averaged over 60 seconds):	5.4 °C
Thermal Runaway are Contained by the Unit Design or not:	Contained by the Unit Design
Cell Vent Gas is Flammable or not:	Flammable
Cell to cell thermal runaway propagation was achieved or not:	Yes
Cheesecloth Indicator Flaming or not:	N/A
The Concentration of Flammable Gas:	Mainly Hydrocarbon, CO, CO ₂ , H ₂
Test Video File:	Archived by Applicant

Remark: This report only evaluated unit level test which is listed inside the dotted box.



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[Test object Description]

Table 1: Description of component cell

Model:	LF100LA	
Manufacturer:	EVE Power Co., Ltd.	
Nominal capacity:	100 Ah	
Nominal voltage:	3.2 Vdc	
Chemistry:	Lithium Iron Phosphate/Graphite	
Maximum charge current:	100 A	
Maximum discharge current:	100 A	
Maximum charge voltage:	3.65 V	
Cut-off Voltage:	2.5 V	
Charge temperature range:	0 to 65 °C	
Discharge temperature range:	-20 to 65 °C	
External dimensions:	160.0 ± 0.8 mm * 50.1 ± 0.5 mm * 115.7 ± 0.5 mm	
Weight:	1985 ± 100 g	
UL 1973 compliant:	☒ Yes / ☐ No	Reference: UL file No.: MH63503
UL 9540A report provide:	☒ Yes / ☐ No	Reference: Project No. 4790509108, issued by UL
Supplementary information:	After comparison, the battery cell tested according to UL 9540A:2019 meets the requirements of the UL 9540A:2026.	



Figure 1. View of component cell



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Table 2: Description of battery module

Model:	GW10.2-PACK-ACI	
Manufacturer:	GoodWe Technologies Co., Ltd	
Nominal capacity:	200 Ah	
Nominal voltage:	51.2 V	
Standard charge current:	100 A	
Standard discharge current:	100 A	
Maximum charge voltage:	57.76 V	
Cut-off Voltage:	45.92 V	
Charge temperature range:	0 to 55 °C	
Discharge temperature range:	-20 to 55 °C	
Module configuration:	2P16S	
External dimensions:	894*135.3*595 mm	
Enclosure material:	SGCC, thickness: 1.5mm	
Weight:	Approx. 90 kg	
UL 1973 compliant:	☐ Yes / ☐ No	Reference: N/A
UL 9540A report provide:	☐ Yes / ☐ No	Reference: N/A
Supplementary information:	N/A	



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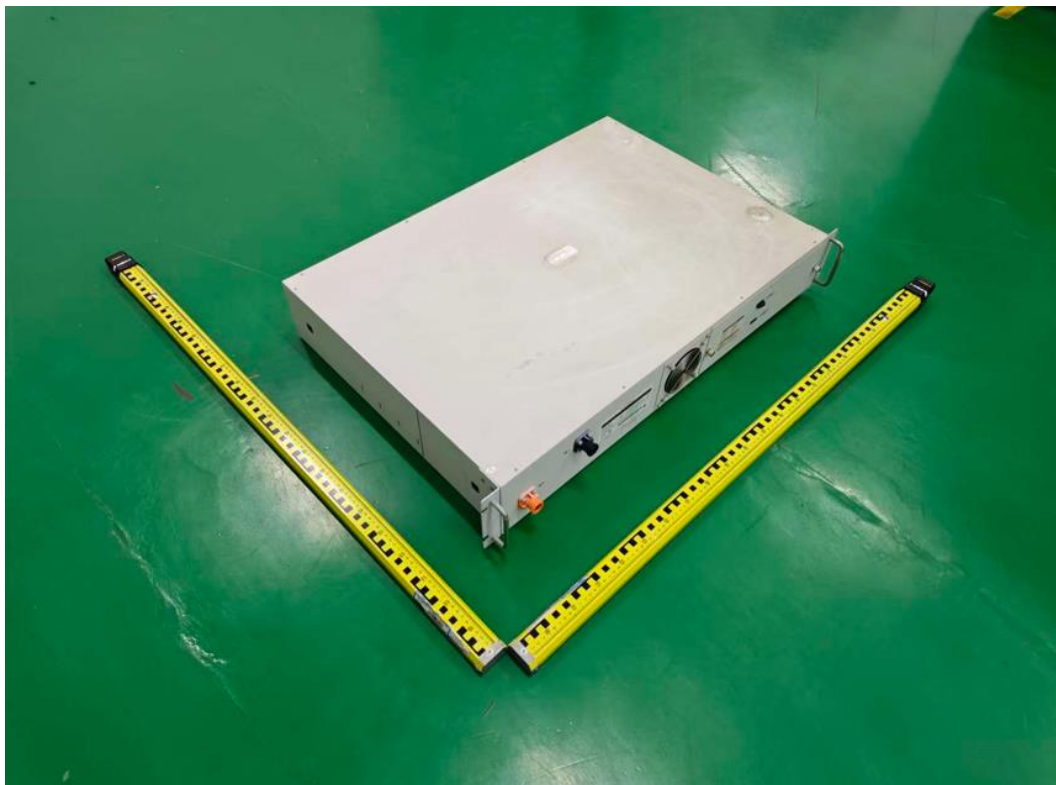


Figure 2. Front view of battery module

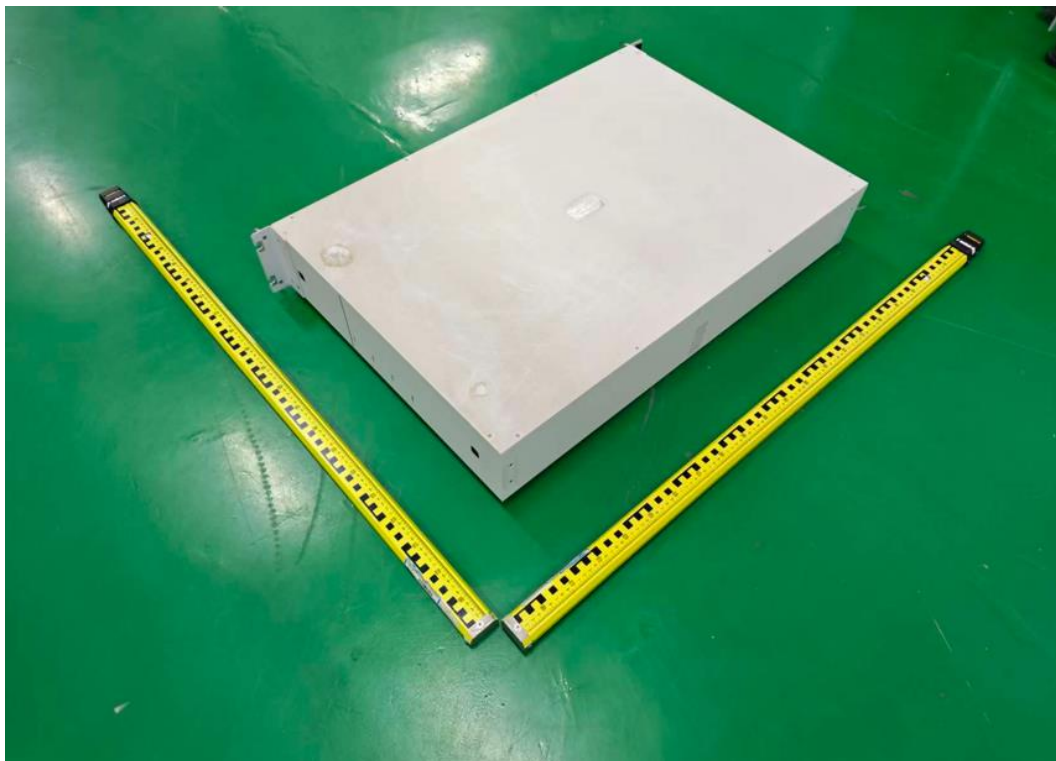


Figure 3. Rear view of battery module



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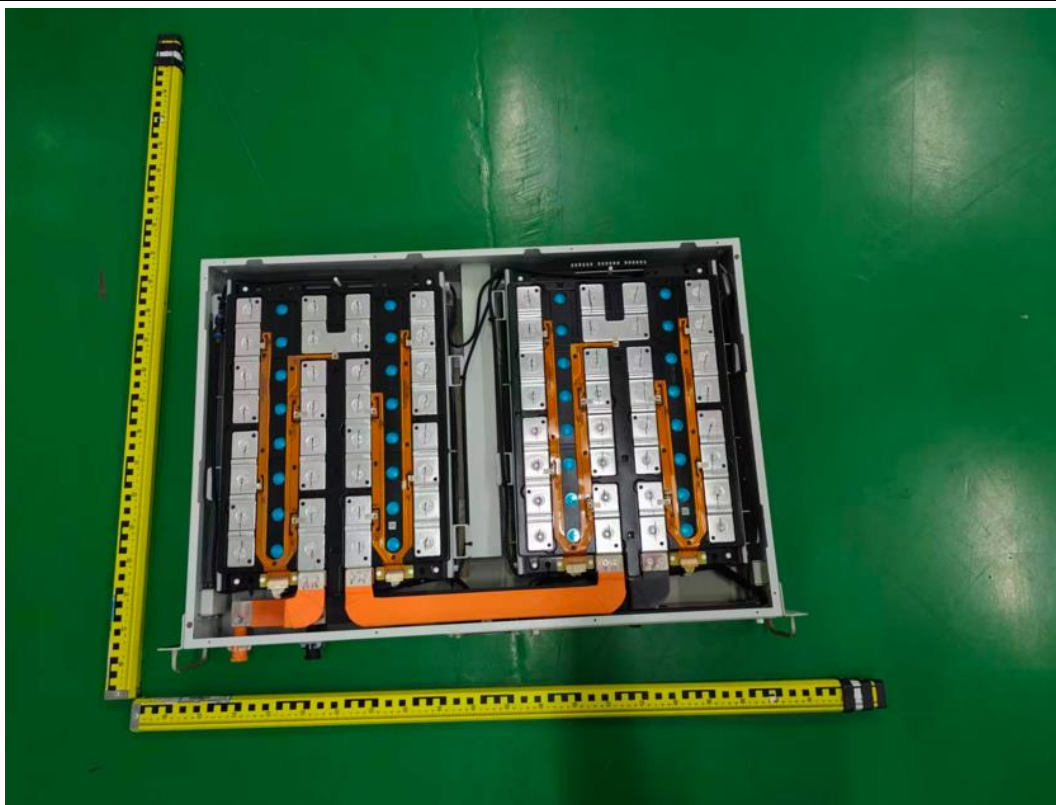


Figure 4. Internal view of battery module



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Table 3: Description of battery unit

Model:	GW61.4-BAT-AC-G10, GW61.4-BAT-AC-JP-G10	GW71.6-BAT-AC-G10, GW71.6-BAT-AC-JP-G10	GW81.9-BAT-AC-G10, GW81.9-BAT-AC-JP-G10	GW92.1-BAT-AC-G10, GW92.1-BAT-AC-JP-G10	GW102.4-BAT-AC-G10, GW102.4-BAT-AC-JP-G10	GW112.6-BAT-AC-G10
Manufacturer:	GoodWe Technologies Co., Ltd					
Nominal capacity:	200 Ah					
Nominal voltage:	307.2 V	358.4 V	409.6 V	460.8 V	512 V	563.2 V
Standard charge current:	100 A					
Standard discharge current:	100 A					
Maximum charge voltage:	346.56 V	404.32 V	462.08 V	519.84 V	577.6 V	635.36 V
Cut-off Voltage:	275.52 V	321.44 V	367.36 V	413.28 V	459.2 V	505.12 V
Charge temperature range:	-20 to 55 °C					
Discharge temperature range:	-20 to 55 °C					
Unit configuration:	(2P16S)6 S	(2P16S)7 S	(2P16S)8 S	(2P16S)9 S	(2P16S)1 0S	(2P16S)1 1S
External dimensions:	Approx. 1055*2000*1055mm					
Weight:	GW61.4-BAT-AC-G10: 950 kg GW61.4-BAT-AC-JP-G10: 1025 kg	GW71.6-BAT-AC-G10: 1040 kg GW71.6-BAT-AC-JP-G10: 1115 kg	GW81.9-BAT-AC-G10: 1130 kg GW81.9-BAT-AC-JP-G10: 1205 kg	GW92.1-BAT-AC-G10: 1220 kg GW92.1-BAT-AC-JP-G10: 1295 kg	GW102.4-BAT-AC-G10: 1310 kg GW102.4-BAT-AC-JP-G10: 1385 kg	GW112.6-BAT-AC-G10: 1400 kg
Fire suppression system contained	☒ Yes / ☐ No		Reference: Smoke Detector: Model: JTY-GM-RS311, Manufacturer: RISOL TECH LTD. Heat Detector: Model: JTW-ZOM-RS311, Manufacturer: RISOL TECH LTD. Aerosol: Model: QRR0.15G/S-PFK, Manufacturer: Hubei JiAnDun Fire Technology Co., Ltd			
UL 1973 compliant:	☐ Yes / ☐ No		Reference: N/A			
UL 9540 compliant:	☐ Yes / ☐ No		Reference: N/A			
Supplement information	1. GW61.4-BAT-AC-G10, GW71.6-BAT-AC-G10, GW81.9-BAT-AC-G10, GW92.1-BAT-AC-G10 and GW102.4-BAT-AC-G10 are identical to					



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	GW112.6-BAT-AC-G10 except for the number of battery modules (model: GW10.2-PACK-ACI).		
	2. GW61.4-BAT-AC-JP-G10, GW71.6-BAT-AC-JP-G10, GW81.9-BAT-AC-JP-G10, GW92.1-BAT-AC-JP-G10 and GW102.4-BAT-AC-JP-G10 are identical to GW61.4-BAT-AC-G10, GW71.6-BAT-AC-G10, GW81.9-BAT-AC-G10, GW92.1-BAT-AC-G10 and GW102.4-BAT-AC-G10 respectively except for the outer shell wall thickness.		
	3. GW112.6-BAT-AC-G10 was selected as the test sample, whose results were representative of other models listed in this report		
	Model	Number of battery modules	Outer shell wall thickness /cm
	GW61.4-BAT-AC-G10	6	1.5
	GW71.6-BAT-AC-G10	7	1.5
	GW81.9-BAT-AC-G10	8	1.5
	GW92.1-BAT-AC-G10	9	1.5
	GW102.4-BAT-AC-G10	10	1.5
	GW112.6-BAT-AC-G10	11	1.5
	GW61.4-BAT-AC-JP-G10	6	2.5
	GW71.6-BAT-AC-JP-G10	7	2.5
	GW81.9-BAT-AC-JP-G10	8	2.5
	GW92.1-BAT-AC-JP-G10	9	2.5
	GW102.4-BAT-AC-JP-G10	10	2.5



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Figure 5a. Front view of battery unit



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Figure 5b. Rear view of battery unit



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Figure 6. Internal view of battery unit (GW112.6-BAT-AC-G10)



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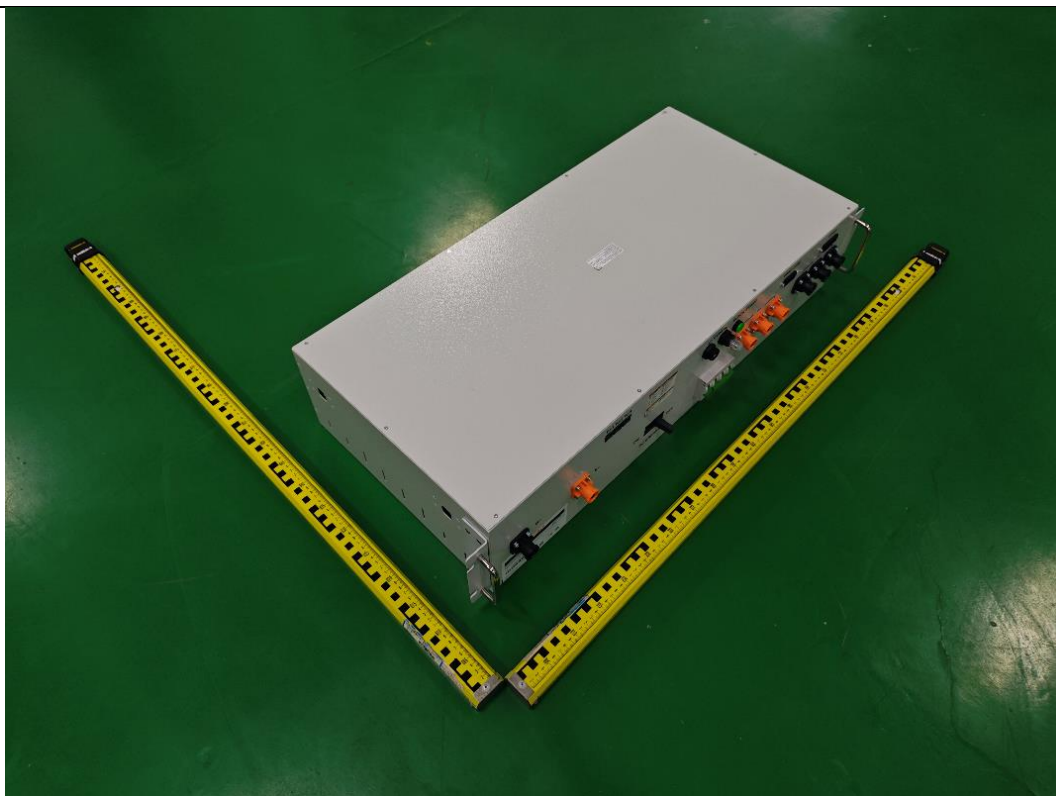


Figure 7. Front view of high voltage box



Figure 8. Rear view of high voltage box



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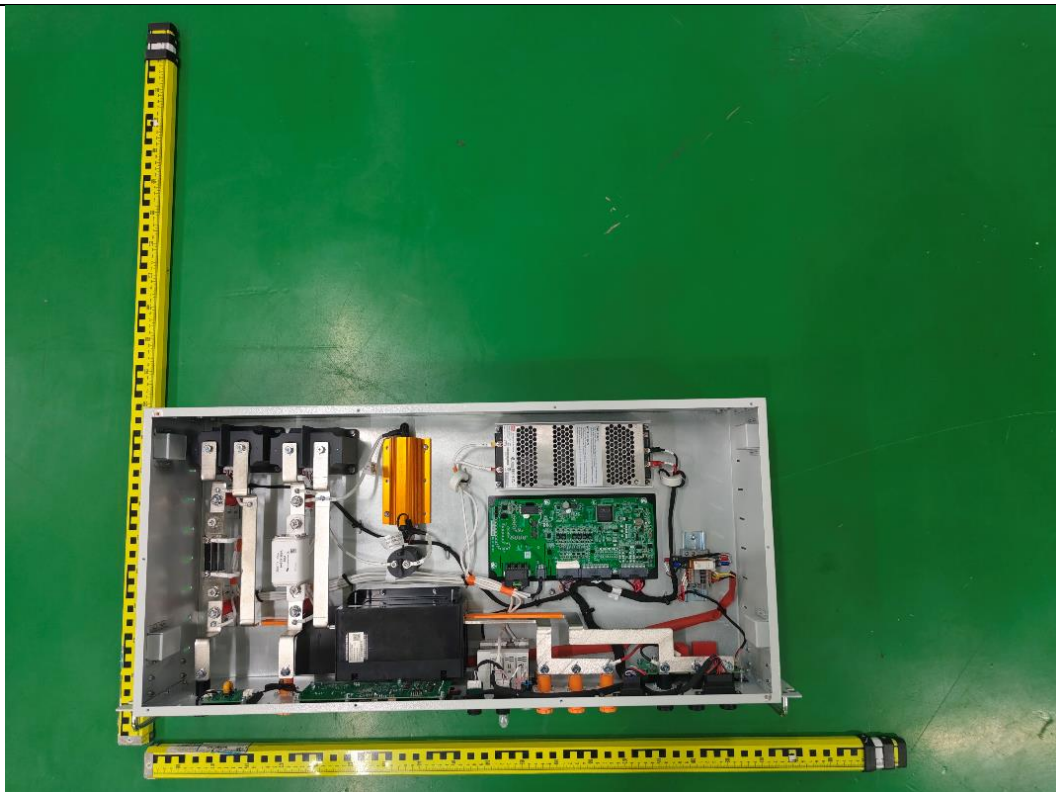


Figure 9. Internal view of high voltage box

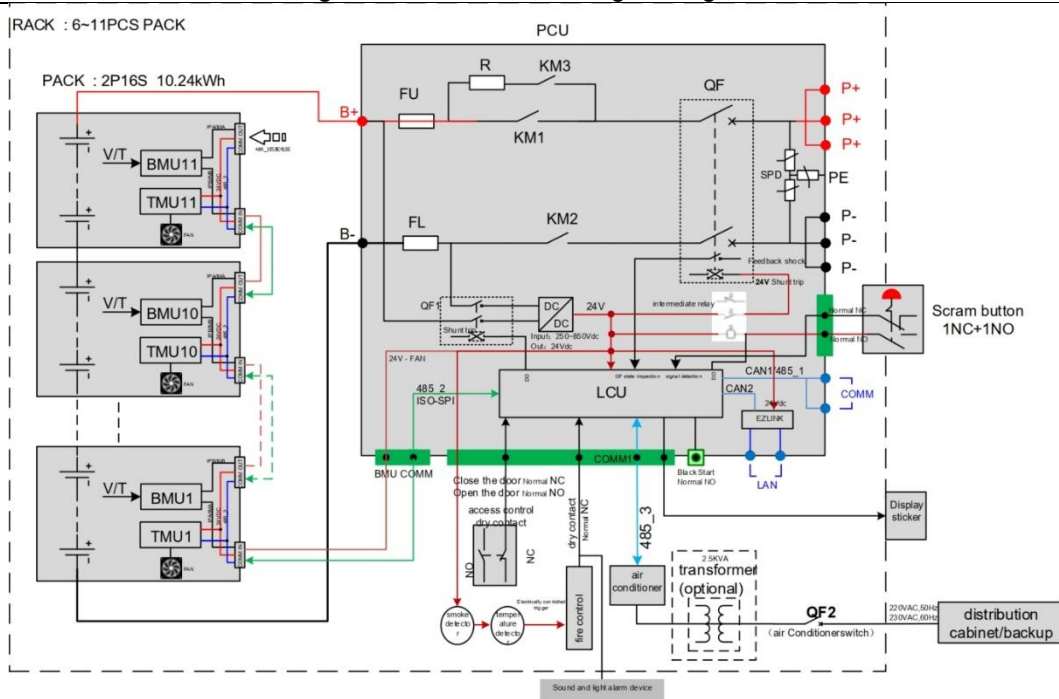


Figure 10. Electrical schematic diagram of battery unit



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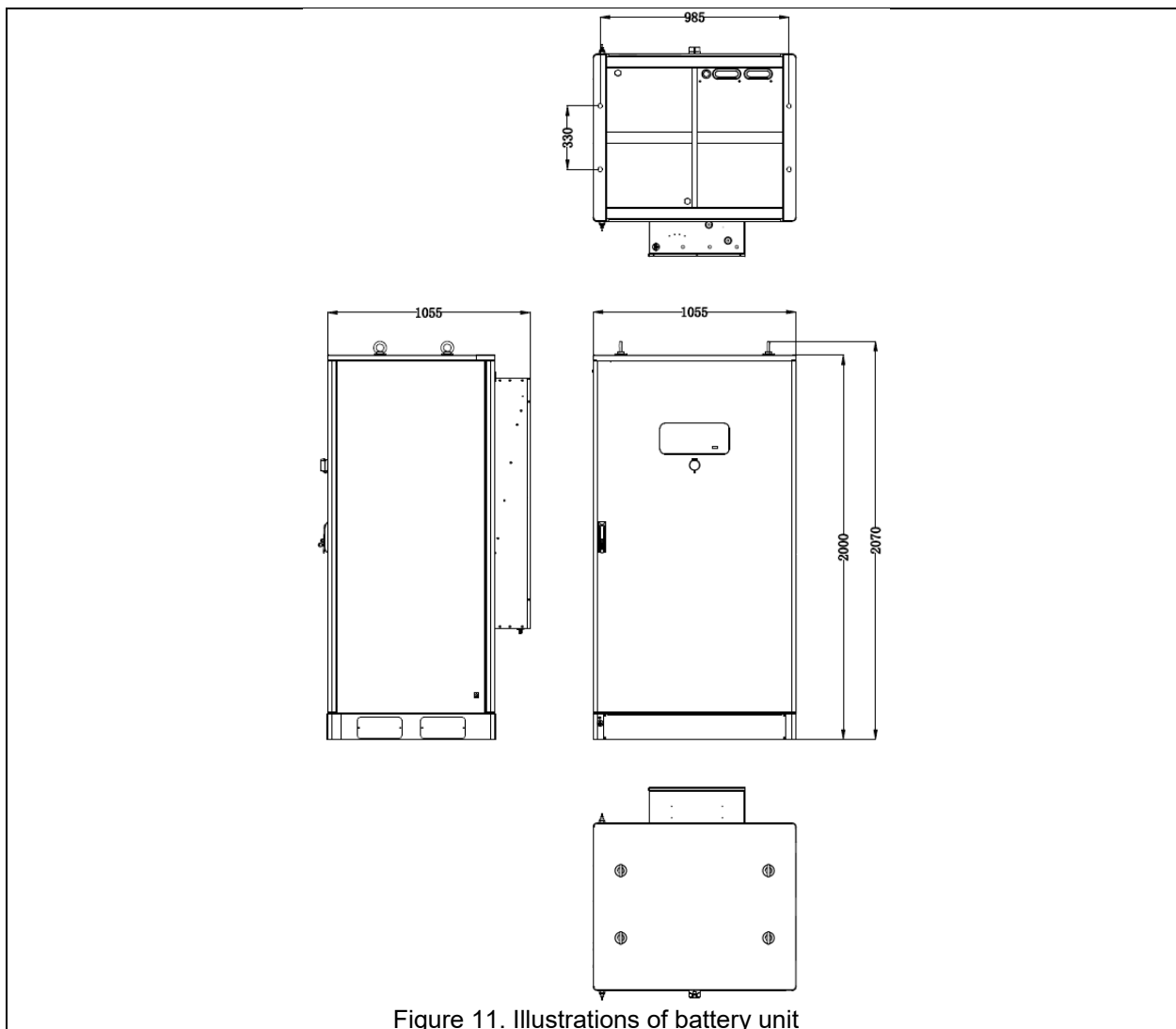


Figure 11. Illustrations of battery unit



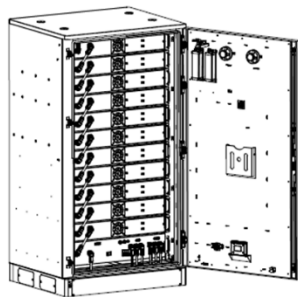
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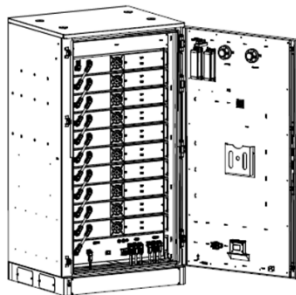
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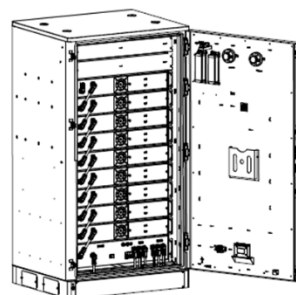
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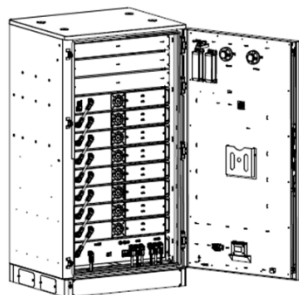
GW112.6-BAT-AC-G10



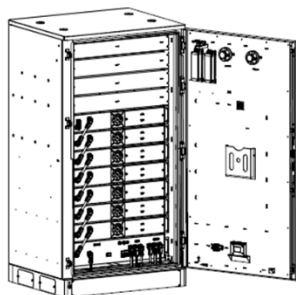
GW102.4-BAT-AC-G10
GW102.4-BAT-AC-JP-G10



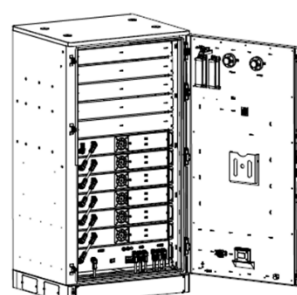
GW92.1-BAT-AC-G10
GW92.1-BAT-AC-JP-G10



GW81.9-BAT-AC-G10
GW81.9-BAT-AC-JP-G10



GW71.6-BAT-AC-G10
GW71.6-BAT-AC-JP-G10



GW61.4-BAT-AC-G10
GW61.4-BAT-AC-JP-G10

Figure 12. Physical layout of the unit



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[Description of thermal runaway methodology]

Sample and test configuration

The unit level test shall be conducted with BESS (Battery Energy Storage System) units installed as described in the manufacturer's instructions and this section.

The unit level test requires one initiating BESS unit, in which a thermal runaway condition resulting in cell to cell thermal runaway propagation in accordance with the module level test is initiated, and adjacent target BESS units representative of an installation. Tests conducted for indoor floor mounted installations for residential BESS may be considered representative of both indoor floor mounted and outdoor ground mounted installations. Tests shall be conducted indoors with fire propagation hazards and separation distances between initiating and target units representative of the installation. The results of such tests for residential BESS may be considered to also represent an outdoor installation.

For outdoor non-residential use High Temperature Batteries installed in a container, the unit level test is waived as there is no additional information to be collected at the unit level for this technology when it is utilized for outdoor use only. Instead, the installation level test shall be conducted.

For installations, where the high temperature battery modules are not installed on racks but rather within separate compartments within the container, the module is considered the test unit.

Depending upon the configuration and design of the BESS (e.g. the BESS is composed of multiple separate parts within separate enclosures), this testing to determine fire characterization can be done at the battery system level. The suitability of this approach shall be determined based upon the overall design of the BESS and an analysis of the battery system as representative of the overall BESS for fire characterization concerns.

Where the manufacturer's instructions indicate that the BESS can be installed outdoors and in open parking garages less than 3m (10 feet) from the means of egress or other exposures, testing shall be conducted as described in this Section.

The initiating BESS unit shall contain components representative of a BESS unit in a complete installation. Combustible components that interconnect the initiating and target BESS units shall be included. Target BESS units shall include the outer cabinet (if part of the design), racking, module enclosures, and components that retain cells components. The target BESS units may also include one live, populated module at the location of the highest anticipated temperature in the enclosure. The remaining target BESS unit module enclosures do not need to contain cells.

The initiating BESS unit shall be brought to the maximum operating state of charge (MOSOC) in accordance with the manufacturer's specifications and allowed to rest for a minimum of 1 hour at room ambient before the start of the test. Prior to initiating the test, the voltage of the initiating module shall be measured and recorded. If the voltage drop is greater than 0.1 of the fully charged voltage of the module, then the initiating BESS shall be charged again, and the voltage of the initiating BESS shall be recorded.

If a BESS unit includes an integral fire suppression system, there is an option of providing this with the DUT. If the BESS unit is provided with an optional integral fire suppression system, the system shall not be provided on the DUT. Electronics and software controls such as the battery management system (BMS) in the BESS are not relied upon for this testing. This does not include a fire suppression control in accordance with UL 864 that is external to the BESS, but provided as part of an integral fire suppression system.



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Table 4: Integral fire suppression system information

Integral fire suppression system information	Refer to Table 3
Standard or optional	☒ Standard / ☐ optional / ☐ N/A
Test with fire suppression or not	☐ Yes / ☒ No

Table 5: BESS installations/ Test configurations

Description:		
☒ a) Indoor floor mounted non-residential use BESS		
☐ b) Indoor floor mounted residential use BESS		
☒ c) Outdoor ground mounted non-residential use BESS		
☐ d) Outdoor ground mounted residential use BESS		
☐ e) Indoor wall mounted non-residential use BESS		
☐ f) Indoor wall mounted residential use BESS		
☐ g) Outdoor wall mounted non-residential use BESS		
☐ h) Outdoor wall mounted residential use BESS		
☐ i) Rooftop non-residential use BESS		
☐ j) Rooftop residential use BESS		
☐ k) Open parking garage non-residential use BESS		
Test configurations for Indoor floor mounted non-residential use BESS.		
The diagram illustrates the layout of BESS units in a room. An 'Initiating BESS Unit' is positioned on the left, and three 'Target BESS Units' (labeled 1, 2, and 3) are arranged in a triangular pattern to its right. Dimensions A through H are indicated by arrows: A and B are vertical distances from the top wall to the top of the units; C and G are horizontal distances from the left wall to the left of the units; D and H are horizontal distances between the units; E and F are vertical distances from the bottom of the units to the bottom of the diagram. Blue diagonal lines represent the units' footprints.	A	1200 mm
	B	1200 mm
	C	50 mm
	D	50 mm
	E	1200 mm
	F	1200 mm
	G	50 mm
	H	50 mm



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Unit level Test method description

☒ Test method – Indoor floor mounted BESS units

During an indoor test, the test room environment shall be controlled to prevent drafts that may affect test results. At the start of the test, the room ambient temperature shall not be less than 10°C (50°F) nor more than 32°C (90°F).

Any access door(s) or panels on the initiating BESS unit and adjacent target BESS units shall be closed, latched and locked at the beginning and duration of the test. The initiating BESS unit shall be positioned adjacent to two instrumented wall sections. Instrumented wall sections shall extend not less than 0.49 m (1.6 feet) horizontally beyond the exterior of the target BESS units. Instrumented wall sections shall be at least 0.61-m (2-feet) taller than the BESS unit height, and not less than 2.13m (7 feet) in height above the floor.

The surface of the instrumented wall sections shall be covered with gypsum wall board and painted flat black. An incremental visual reference shall be provided on the instrumented wall sections for scale so that flame extension can be accurately measured if applicable. The gypsum wall board shall be 13-mm (1/2-inch) thick at minimum.

The initiating BESS unit shall be centered underneath an appropriately sized smoke collection hood of an oxygen consumption calorimeter. The light transmission in the calorimeter's exhaust duct shall be measured using a white light source and photo detector for the duration of the test, and the smoke release rate shall be calculated.

The chemical and convective heat release rates shall be measured for the duration of the test, the heat release rate measurement system shall be calibrated using an atomized heptane diffusion burner. The convective heat release rate shall be measured using thermopile, a velocity probe, and a Type K thermocouple, located in the exhaust system of the exhaust duct. The convective heat release rate shall be calculated using the following equation:

$$HRR_c = V_e A \frac{353.22}{T_e} \int_{T_o}^T C_p dT$$

The physical spacing between BESS units (both initiating and target) and adjacent walls shall be representative of the intended installation. Separation distances shall be specified by the manufacturer for distance between:

- The BESS units and the instrumented wall sections; and
- Adjacent BESS units.

Wall surface temperatures shall be measured in vertical array(s) at 152-mm (6-inch) intervals for the full height of the instrumented wall sections using No.24-gauge or smaller, Type-K exposed junction thermocouples. The thermocouples for measuring the temperature on wall surfaces shall be horizontally positioned in the wall locations anticipated to receive the greatest thermal exposure from the initiating BESS unit. Temperatures shall be measured continuously, averaging over every 60-second interval per.

The maximum of these averages shall be documented for each thermocouple location. Thermocouples shall be secured to gypsum surfaces by the use of staples placed over the insulated portion of the wires. The thermocouple tip shall be depressed into the gypsum so as to be flush with the gypsum surface at the point of measurement and held in thermal contact with the surface at that point by the use of pressure-sensitive paper tape.



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Heat flux shall be measured with the sensing element of at least two water-cooled Schmidt-Boelter or Gardon gauges at the surface of each instrumented wall as follows in(a)-(c) Heat flux shall be measured continuously, averaging over every 60-second interval. The maximum of these averages shall be documented for each gauge location,

- a) Both are collinear with the vertical thermocouple array;
- b) One is positioned at the elevation estimated to receive the greatest heat flux due to the thermal runaway of the initiating module; and
- c) One is positioned at the elevation estimated to receive the greatest heat flux during potential propagation of thermal runaway within the initiating BESS unit.

Heat flux shall be measured with the sensing element of at least two water-cooled Schmidt-Boelter or Gardon gauges at the surface of each adjacent target BESS unit that faces the initiating BESS unit as follows in(a) and (b). Heat flux shall be measured continuously, averaging over every 60-second interval. The maximum of these averages shall be documented for each gauge location.

- a) One is positioned at the elevation estimated to receive the greatest heat flux due to the thermal runaway of the initiating module within the initiating BESS; and
- b) One is positioned at the elevation estimated to receive the greatest surface heat flux due to the thermal runaway of the initiating BESS.

For BESS intended for installation outdoors or in open parking garages, heat flux shall be measured with the sensing element of at least one water-cooled Schmidt-Boelter or Gardon gauge positioned at the mid height of the initiating unit at the minimum horizontal distance from the BESS specified by the manufacturer or the point where the majority of off-gas venting is expected from the initiating unit. Heat flux shall be measured continuously, averaging over every 60-second interval.

No.24-gauge or smaller, Type-K exposed junction thermocouples shall be installed to measure the temperature of the surface proximate to the cells and between the cells and exposed face of the initiating module. Each non-initiating module enclosure within the initiating BESS unit shall be instrumented with at least one No.24-gauge or smaller Type-K thermocouple(s) to provide data to monitor the thermal conditions within non-initiating modules. Additional thermocouples shall be placed to account for convoluted enclosure interior geometries. Temperatures shall be measured continuously, averaging over every 60-second interval. The maximum of these averages shall be documented for each thermocouple location.

For residential use BESS, the DUT shall be covered with a single layer of cheese cloth ignition indicator. The cheesecloth shall be untreated cotton cloth running 26-28m²/kg with a count of 28-32 threads in either direction within a 6.45cm²(1 in²) area.

Cell to cell thermal runaway propagation in accordance with the module level test shall be established within a single module in the initiating BESS unit:

- a) The position of the module shall be selected to present the greatest thermal exposure to adjacent modules (e.g. above, below, laterally), based on the results from the module level test; and
- b) The setup (i.e. type, quantity and positioning) of equipment for initiating thermal runaway in the module shall be the same as that used to initiate and propagate thermal runaway within the module level test.

Thermal runaway methodology for module level test:

The propensity of the module to exhibit thermal runaway shall be demonstrated by heating the initiating cell with externally applied heaters. With a surface heating rate of 4°C (7.2°F) to 7°C (12.6°F) per minute until cell thermal runaway occurs.

At the request of the BESS manufacturer, the hydrocarbon content of the vent gas may additionally be measured using a Fourier-Transform Infrared Spectrometer with a minimum resolution of 1 cm⁻¹ and a path length of at least 2.0m (6.6 feet), or equivalent gas analyzer.



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For residential use systems, the gas collection data shall be compared to the smallest room installation specified by the manufacturer to determine if the flammable gas collected exceeds 25 % LFL in air.



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Test configuration description

Illustration of initial BESS unit	
Description: The fire protection system has no power supply.	
	
Figure 13. View of initiating BESS unit in testing room	



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Figure 14. View of initiating BESS unit and target BESS Unit in testing room



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Illustration of initial module in BESS

Description: Module 6 located in the middle of cabinet was selected as initiating module in initiating BESS unit.



Figure 15. View of initiating module in BESS unit



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Thermal runaway initiation method used including number and locations of cells for initiating thermal runaway

Initiation method:

External heating method was used for initiating thermal runaway. By controlling the input power of the heaters, a surface heating rate of 4°C (9°F) to 7°C (12.6°F) per minute was achieved. Max. power of the heater 1 was 430 W, and Max. power of the heater 2 was 430 W.

Number of cells for initiating thermal runaway:

☒ Single cell 100 Ah

Locations of cells and module for initiating thermal runaway within the BESS unit:

The Battery unit consists of 11 battery modules and a high voltage box. Module 6 located in the middle of battery unit was selected as initiating module in initiating BESS unit as shown in Figure 15.

The battery module consists of 32 cells connected in 2P16S configuration. The film heaters were placed on the two large surfaces of Cell 21. Cell 21 was selected as the initiating cell (as shown in Figure 16c).

Other description:

N/A



Figure 16a. External view of initiating module.



Figure 16b. Internal view of initiating module.

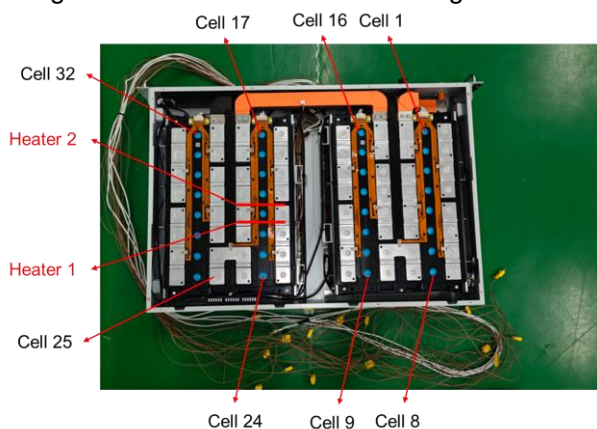


Figure 16c. Location of initiating cell inside initiating module.

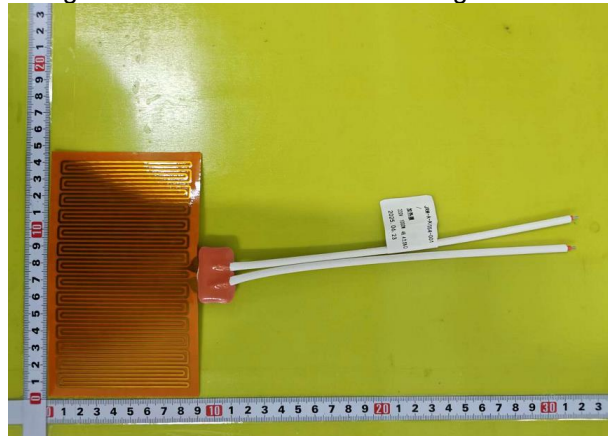


Figure 16d. View of flexible film heater.



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Illustration of external heater and thermocouple location in initial module

Description : N/A

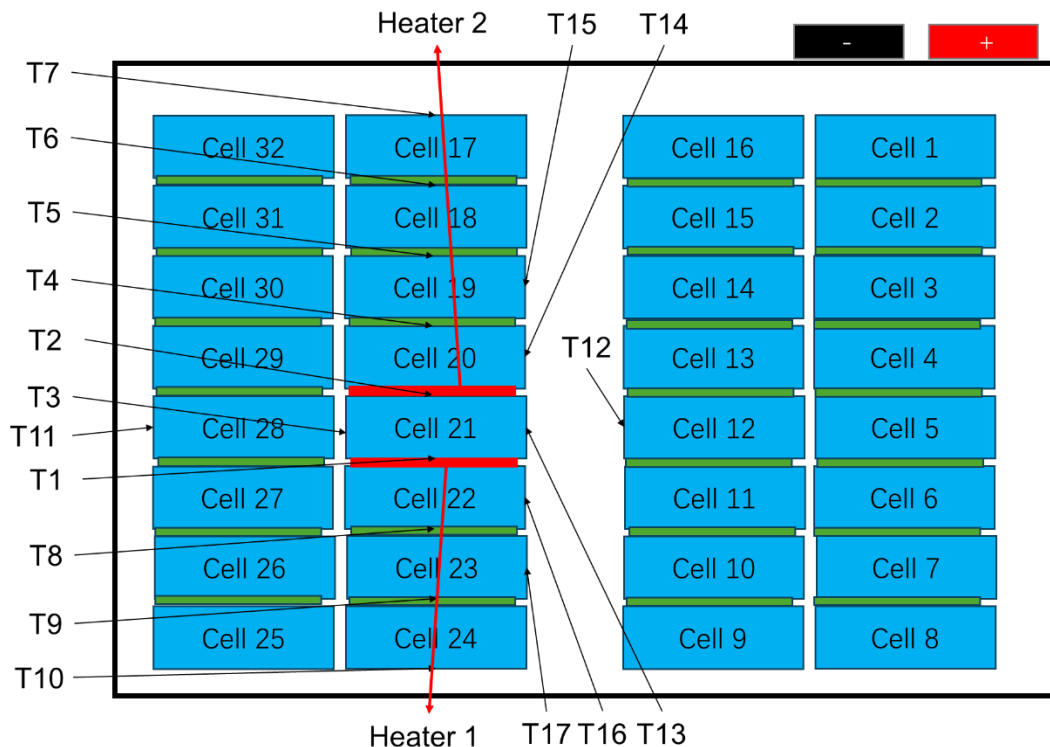


Figure 17. Schematic Illustration of heaters and thermocouple locations in DUT (T1 to T17 means thermocouples T1 to T17. View from top.).



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Positioning of units within testing room
Test Start Time : 2026-04-03 12:21:07
Initial Ambient Test Temperature: 23.6 °C
Initial Relative Humidity : 51.7%
Description: N/A



Figure 18. Front view of BESS units in testing room



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Figure 19. Rear view of BESS units in testing room



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Table 6: Thermocouple placement

Thermocouple ID	Description of location	Remark
CH1_1	Center of surface between Cell 21 and Heater 1	T1 in initiating module
CH1_2	Center of surface between Cell 21 and Heater 2	T2 in initiating module
CH1_3	Center of side surface of Cell 21	T3 in initiating module
CH1_4	Center of surface between Cell 20 and Cell 19	T4 in initiating module
CH1_5	Center of surface between Cell 19 and Cell 18	T5 in initiating module
CH1_6	Center of surface between Cell 18 and Cell 17	T6 in initiating module
CH1_7	Center of surface of Cell 17	T7 in initiating module
CH1_8	Center of surface between Cell 23 and Cell 22	T8 in initiating module
CH1_9	Center of surface between Cell 24 and Cell 23	T9 in initiating module
CH1_10	Center of surface of Cell 24	T10 in initiating module
CH1_11	Center of side surface of Cell 28	T11 in initiating module
CH1_12	Center of side surface of Cell 12	T12 in initiating module
CH1_13	Center of side surface of Cell 21	T13 in initiating module
CH1_14	Center of side surface of Cell 20	T14 in initiating module
CH1_15	Center of side surface of Cell 19	T15 in initiating module
CH1_16	Center of side surface of Cell 22	T16 in initiating module
CH1_17	Center of side surface of Cell 23	T17 in initiating module
CH2_30	Ambient temperature	--
CH1_20	Front surface of module 1 in initiating unit	In initiating unit
CH1_21	Front surface of module 2 in initiating unit	In initiating unit
CH1_22	Front surface of module 3 in initiating unit	In initiating unit
CH1_23	Front surface of module 4 in initiating unit	In initiating unit
CH1_24	Front surface of module 5 in initiating unit	In initiating unit
CH1_25	Front surface of module 6 in initiating unit	In initiating unit
CH1_26	Front surface of module 7 in initiating unit	In initiating unit
CH1_27	Front surface of module 8 in initiating unit	In initiating unit
CH1_28	Front surface of module 9 in initiating unit	In initiating unit
CH1_29	Front surface of module 10 in initiating unit	In initiating unit
CH1_30	Front surface of module 11 in initiating unit	In initiating unit
CH2_5	Left side surface of module 1 in target unit 1	In target unit 1
CH2_8	Left side surface of module 2 in target unit 1	In target unit 1
CH2_1	Left side surface of module 3 in target unit 1	In target unit 1
CH2_11	Left side surface of module 4 in target unit 1	In target unit 1
CH2_3	Left side surface of module 5 in target unit 1	In target unit 1
CH2_2	Left side surface of module 6 in target unit 1	In target unit 1
CH2_7	Left side surface of module 7 in target unit 1	In target unit 1
CH2_10	Left side surface of module 8 in target unit 1	In target unit 1
CH2_6	Left side surface of module 9 in target unit 1	In target unit 1
CH2_4	Left side surface of module 10 in target unit 1	In target unit 1
CH2_9	Left side surface of module 11 in target unit 1	In target unit 1
CH2_14	Rear surface of module 1 in target unit 2	In target unit 2
CH2_20	Rear surface of module 2 in target unit 2	In target unit 2
CH2_16	Rear surface of module 3 in target unit 2	In target unit 2
CH2_23	Rear surface of module 4 in target unit 2	In target unit 2
CH2_15	Rear surface of module 5 in target unit 2	In target unit 2
CH2_17	Rear surface of module 6 in target unit 2	In target unit 2
CH2_19	Rear surface of module 7 in target unit 2	In target unit 2



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CH2_13	Rear surface of module 8 in target unit 2	In target unit 2
CH2_21	Rear surface of module 9 in target unit 2	In target unit 2
CH2_18	Rear surface of module 10 in target unit 2	In target unit 2
CH2_22	Rear surface of module 11 in target unit 2	In target unit 2
CH0001	No. 1 of Instrumented Wall A	WA 1
CH0002	No. 2 of Instrumented Wall A	WA 2
CH0003	No. 3 of Instrumented Wall A	WA 3
CH0004	No. 4 of Instrumented Wall A	WA 4
CH0005	No. 5 of Instrumented Wall A	WA 5
CH0006	No. 6 of Instrumented Wall A	WA 6
CH0007	No. 7 of Instrumented Wall A	WA 7
CH0008	No. 8 of Instrumented Wall A	WA 8
CH0009	No. 9 of Instrumented Wall A	WA 9
CH0010	No. 10 of Instrumented Wall A	WA 10
CH0011	No. 11 of Instrumented Wall A	WA 11
CH0012	No. 12 of Instrumented Wall A	WA 12
CH0013	No. 13 of Instrumented Wall A	WA 13
CH0014	No. 14 of Instrumented Wall A	WA 14
CH0015	No. 15 of Instrumented Wall A	WA 15
CH0016	No. 16 of Instrumented Wall A	WA 16
CH0017	No. 17 of Instrumented Wall A	WA 17
CH0018	No. 18 of Instrumented Wall A	WA 18
CH0019	No. 19 of Instrumented Wall A	WA 19
CH0020	No. 20 of Instrumented Wall A	WA 20
CH0021	No. 21 of Instrumented Wall A	WA 21
CH0022	No. 22 of Instrumented Wall A	WA 22
CH0023	No. 23 of Instrumented Wall A	WA 23
CH0024	No. 24 of Instrumented Wall A	WA 24
CH0025	No. 25 of Instrumented Wall A	WA 25
CH0026	No. 26 of Instrumented Wall A	WA 26
CH0027	No. 27 of Instrumented Wall A	WA 27
CH0028	No. 28 of Instrumented Wall A	WA 28
CH0029	No. 29 of Instrumented Wall A	WA 29
CH0030	No. 30 of Instrumented Wall A	WA 30
CH0031	No. 31 of Instrumented Wall A	WA 31
CH0032	No. 32 of Instrumented Wall A	WA 32
CH0033	No. 33 of Instrumented Wall A	WA 33
CH0034	No. 34 of Instrumented Wall A	WA 34
CH0035	No. 35 of Instrumented Wall A	WA 35
CH0036	No. 36 of Instrumented Wall A	WA 36
CH0037	No. 37 of Instrumented Wall A	WA 37
CH0038	No. 38 of Instrumented Wall A	WA 38
CH0039	No. 39 of Instrumented Wall A	WA 39
CH0040	No. 40 of Instrumented Wall A	WA 40
CH0041	No. 41 of Instrumented Wall A	WA 41
CH0042	No. 42 of Instrumented Wall A	WA 42
CH0043	No. 43 of Instrumented Wall A	WA 43
CH0044	No. 44 of Instrumented Wall A	WA 44
CH0045	No. 45 of Instrumented Wall A	WA 45
CH0046	No. 46 of Instrumented Wall A	WA 46
CH0047	No. 47 of Instrumented Wall A	WA 47



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CH0048	No. 48 of Instrumented Wall A	WA 48
CH0049	No. 49 of Instrumented Wall A	WA 49
CH0050	No. 50 of Instrumented Wall A	WA 50
CH0051	No. 51 of Instrumented Wall A	WA 51
CH0052	No. 52 of Instrumented Wall A	WA 52
CH0053	No. 53 of Instrumented Wall A	WA 53
CH0054	No. 54 of Instrumented Wall A	WA 54
CH0055	No. 55 of Instrumented Wall A	WA 55
CH0056	No. 56 of Instrumented Wall A	WA 56
CH0057	No. 57 of Instrumented Wall A	WA 57
CH0058	No. 58 of Instrumented Wall A	WA 58
CH0059	No. 59 of Instrumented Wall A	WA 59
CH0060	No. 60 of Instrumented Wall A	WA 60
CH0101	No. 1 of Instrumented Wall B	WB 1
CH0102	No. 2 of Instrumented Wall B	WB 2
CH0103	No. 3 of Instrumented Wall B	WB 3
CH0104	No. 4 of Instrumented Wall B	WB 4
CH0105	No. 5 of Instrumented Wall B	WB 5
CH0106	No. 6 of Instrumented Wall B	WB 6
CH0107	No. 7 of Instrumented Wall B	WB 7
CH0108	No. 8 of Instrumented Wall B	WB 8
CH0109	No. 9 of Instrumented Wall B	WB 9
CH0110	No. 10 of Instrumented Wall B	WB 10
CH0111	No. 11 of Instrumented Wall B	WB 11
CH0112	No. 12 of Instrumented Wall B	WB 12
CH0113	No. 13 of Instrumented Wall B	WB 13
CH0114	No. 14 of Instrumented Wall B	WB 14
CH0115	No. 15 of Instrumented Wall B	WB 15
CH0116	No. 16 of Instrumented Wall B	WB 16
CH0117	No. 17 of Instrumented Wall B	WB 17
CH0118	No. 18 of Instrumented Wall B	WB 18
CH0119	No. 19 of Instrumented Wall B	WB 19
CH0120	No. 20 of Instrumented Wall B	WB 20
CH0121	No. 21 of Instrumented Wall B	WB 21
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CH0127	No. 27 of Instrumented Wall B	WB 27
CH0128	No. 28 of Instrumented Wall B	WB 28
CH0129	No. 29 of Instrumented Wall B	WB 29
CH0130	No. 30 of Instrumented Wall B	WB 30
CH0131	No. 31 of Instrumented Wall B	WB 31
CH0132	No. 32 of Instrumented Wall B	WB 32
CH0133	No. 33 of Instrumented Wall B	WB 33
CH0134	No. 34 of Instrumented Wall B	WB 34
CH0135	No. 35 of Instrumented Wall B	WB 35
CH0136	No. 36 of Instrumented Wall B	WB 36
CH0137	No. 37 of Instrumented Wall B	WB 37
CH0138	No. 38 of Instrumented Wall B	WB 38



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CH0140	No. 40 of Instrumented Wall B	WB 40
CH0141	No. 41 of Instrumented Wall B	WB 41
CH0142	No. 42 of Instrumented Wall B	WB 42
CH0143	No. 43 of Instrumented Wall B	WB 43
CH0144	No. 44 of Instrumented Wall B	WB 44
CH0145	No. 45 of Instrumented Wall B	WB 45
CH0146	No. 46 of Instrumented Wall B	WB 46
CH0147	No. 47 of Instrumented Wall B	WB 47
CH0148	No. 48 of Instrumented Wall B	WB 48
CH0149	No. 49 of Instrumented Wall B	WB 49
CH0150	No. 50 of Instrumented Wall B	WB 50
CH0151	No. 51 of Instrumented Wall B	WB 51
CH0152	No. 52 of Instrumented Wall B	WB 52
CH0153	No. 53 of Instrumented Wall B	WB 53
CH0154	No. 54 of Instrumented Wall B	WB 54



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[Description of test results]

Table 7: Overview of test timeline and key events

Time (HH: MM: SS)	Relative Time (HH: MM: SS)	Event ID	Event	Description	Photo Reference
12:21:07	00:00:00	E1	Test Start	All Heaters energized	--
13:10:52	00:49:45	E2	Thermal Runaway onset (First release)	Smoke and gas venting observed from DUT enclosure. All Heaters de-energized.	Figure 26a Figure 26b
13:43:23	01:22:16	E3	Second release	Smoke and gas venting observed from DUT enclosure.	Figure 27a Figure 27b
14:40:55	02:19:48	E4	Third release	Smoke and gas venting observed from DUT enclosure.	Figure 28a Figure 28b
14:53:27	02:32:20	E5	Forth release	Smoke and gas venting observed from DUT enclosure.	Figure 29a Figure 29b
15:10:39	02:49:32	E6	Fifth release	Smoke and gas venting observed from DUT enclosure.	Figure 30a Figure 30b
15:34:48	03:13:41	E7	Sixth release	Smoke and gas venting observed from DUT enclosure.	Figure 31a Figure 31b
23:34:36	11:13:29	E8	Test Termination	--	--
Test Start Time : 2026-04-03 12:21:07 Remark: N/A					

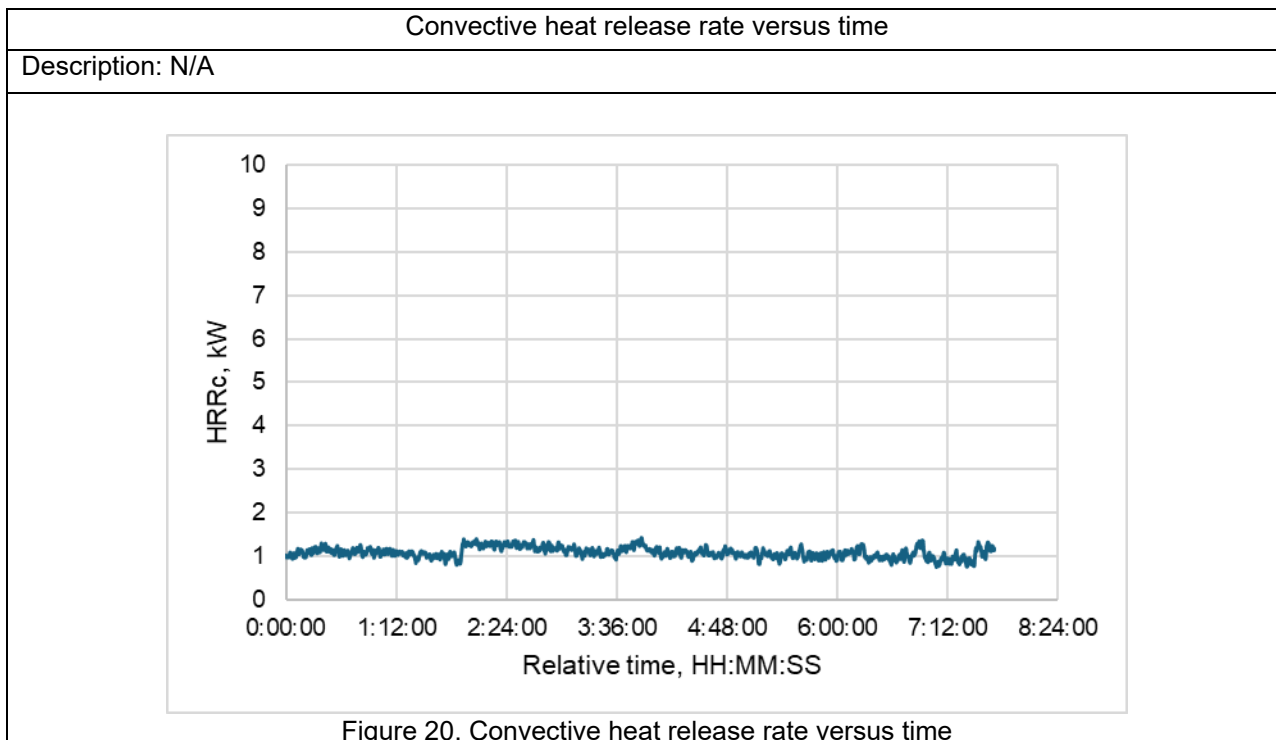


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Chemical heat release rate versus time
Description: No flaming combustion observed outside initiating BESS unit.
N/A



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Maximum incident heat flux on target wall surfaces and target BESS units

Description: The incident heat flux is averaged over 60 seconds.

Heat Flux ID	Description of location
CH 3-1	Surface of instrumented wall B, facing the left of module 6 (initiating module) in initiating unit
CH 3-2	Surface of instrumented wall B, facing the left of module 5 in initiating unit
CH 3-3	Surface of instrumented wall A, facing the rear of module 6 (initiating module) in initiating unit
CH 3-4	Surface of instrumented wall A, facing the rear of module 5 in initiating unit
CH 3-5	Left side surface of target unit 1, facing the right of module 6 (initiating module) in initiating unit
CH 3-6	In the center of the accessible means of egress, 600 mm away from the front of module 6 (initiating module) in initiating unit

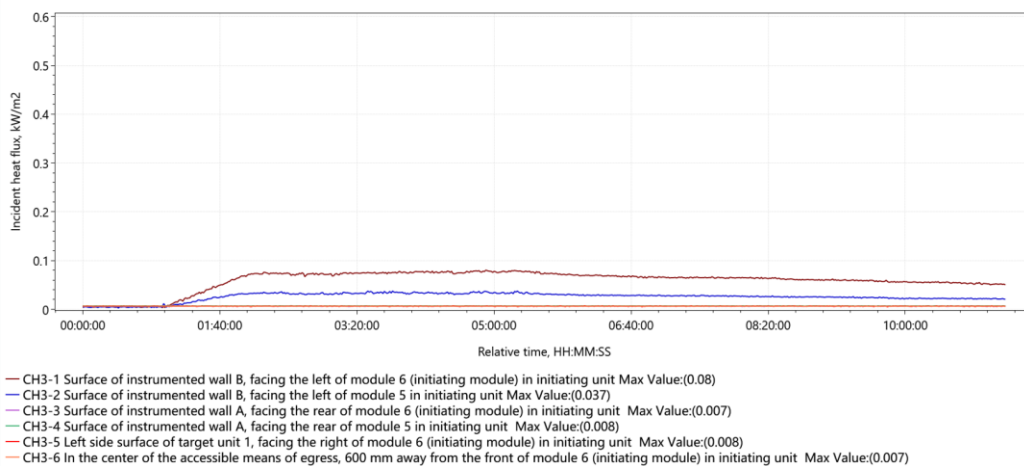


Figure 21. Incident heat flux on instrumented wall surfaces, target units and accessible means of egress



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Peak smoke release rate and total smoke release data

Description:

Peak smoke release rate is 0.041 m²/s during test.

Total smoke release 32.982 m².

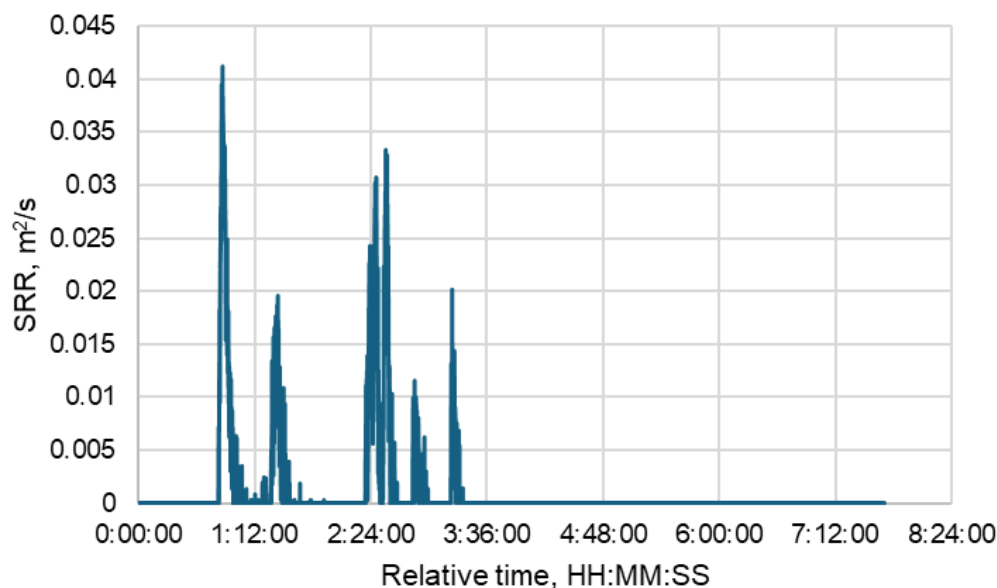


Figure 22. Smoke release rate versus time.



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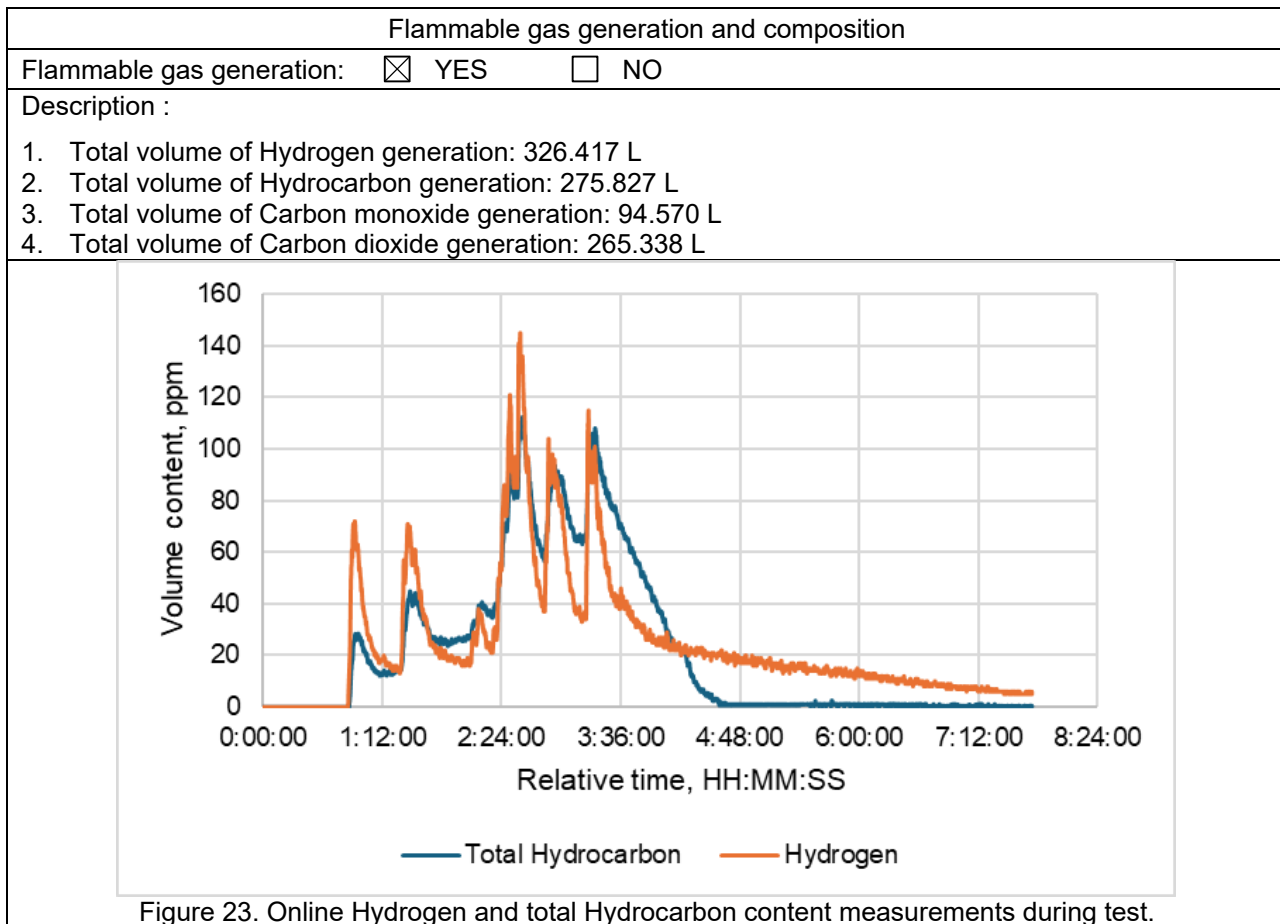
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Identification/location of module(s) that exhibited thermal runaway within the unit	
Module(s) that exhibited thermal runaway:	☒ YES ☐ NO
Description: Total 16 cells exhibited thermal runaway.	



Figure 24. View of location of module that exhibited thermal runaway in the initiating unit



Figure 25. View of location of cells that exhibited thermal runaway in the initiating module



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Locations and visual estimations of flame extension and duration from the unit
Flame extension : ☐ YES ☒ NO
Description : No external flaming observed.
N/A

Other observations during test
Description : N/A ☐ Sparks ☐ Electrical arcs ☐ Flying debris ☐ Explosive discharge of gases ☐ Other _____
N/A



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Table 8: Data during test

Module ID	OCV of Battery Module Before Test, (V dc)	OCV of Battery Module After Test, (V dc)	Observation Results
Module 1 in initiating unit	53.339	53.332	No gas venting observed. No external flaming observed
Module 2 in initiating unit	53.342	53.338	No gas venting observed. No external flaming observed
Module 3 in initiating unit	53.341	53.339	No gas venting observed. No external flaming observed
Module 4 in initiating unit	53.339	53.338	No Gas venting observed. No external flaming observed
Module 5 in initiating unit	53.338	53.332	No gas venting observed. No external flaming observed
Module 6 in initiating unit	53.405	26.685	Gas venting observed. No external flaming observed
Module 7 in initiating unit	53.342	53.336	No gas venting observed. No external flaming observed
Module 8 in initiating unit	53.343	53.339	No gas venting observed. No external flaming observed
Module 9 in initiating unit	53.340	53.336	No gas venting observed. No external flaming observed
Module 10 in initiating unit	53.341	53.336	No gas venting observed. No external flaming observed
Module 11 in initiating unit	53.343	53.337	No gas venting observed. No external flaming observed
Module 6 in target unit 1	53.329	53.321	No gas venting observed. No external flaming observed
Module 6 in target unit 2	53.348	53.341	No gas venting observed. No external flaming observed
Measured Maximum Temperature Rise of Wall Surface			
Thermocouple ID	CH0104		
Measurements, (°C)	29 (temperature rise 5.4 °C)		
Location	No. 4 of Instrumented Wall B, face the left surface of module 6 in initiating unit		
Limits: ΔT ≤ 97 °C			
Measured Maximum Surface Temperature of Modules within the Target BESS Units			
Thermocouple ID	CH 2_19		



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Measurements, (°C)	23.9
Location	Rear surface of module 7 in target unit 2
Limits: Tmax. ≤ 181 °C	
Cheesecloth indicator used or not ☐ Yes ☒ No	
Description of cheesecloth indicator after test : N/A	
The test terminated at: ☒ a) There are three consecutive temperature readings measured inside each module within the initiating BESS unit that are determined to be falling over 15-minute intervals; ☐ b) The modules return to a temperature less than 60°C (140°F); ☐ c) The fire propagates to adjacent units or to adjacent walls; ☐ d) A condition hazardous to test staff or the test facility requires mitigation; or ☐ e) Flaming outside the test room is observed. Supplementary information: N/A	



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Figure 26a. photo of event (E2) during test



Figure 26b. photo of event (E2) during test



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Figure 27a. photo of event (E3) during test



Figure 27b. photo of event (E3) during test



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Figure 28a. photo of event (E4) during test



Figure 28b. photo of event (E4) during test



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Figure 29a. photo of event (E5) during test



Figure 29b. photo of event (E5) during test



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Figure 30a. photo of event (E6) during test



Figure 30b. photo of event (E6) during test



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Figure 31a. photo of event (E7) during test



Figure 31b. photo of event (E7) during test



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Figure 32. Photo of initiating BESS Units in testing room after test



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Figure 33. Photo 1 of initiating module after test



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Figure 34. Photo 2 of initiating module after test



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Figure 35. Photo 3 of initiating module after test



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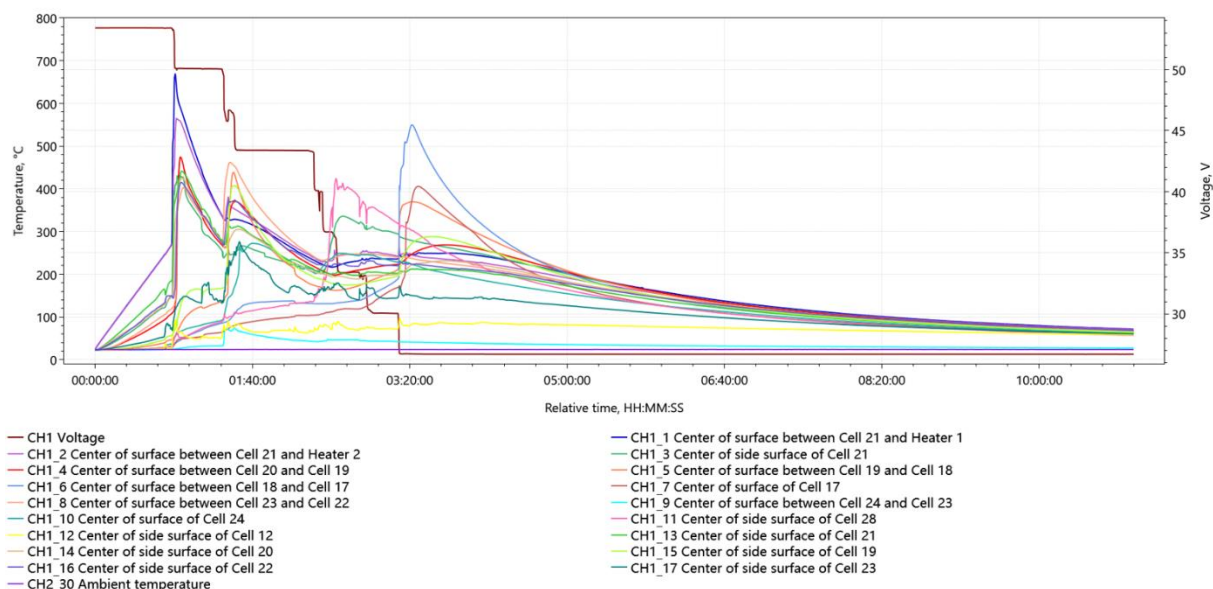


Figure 36. Temperature measurement results in the initiating module

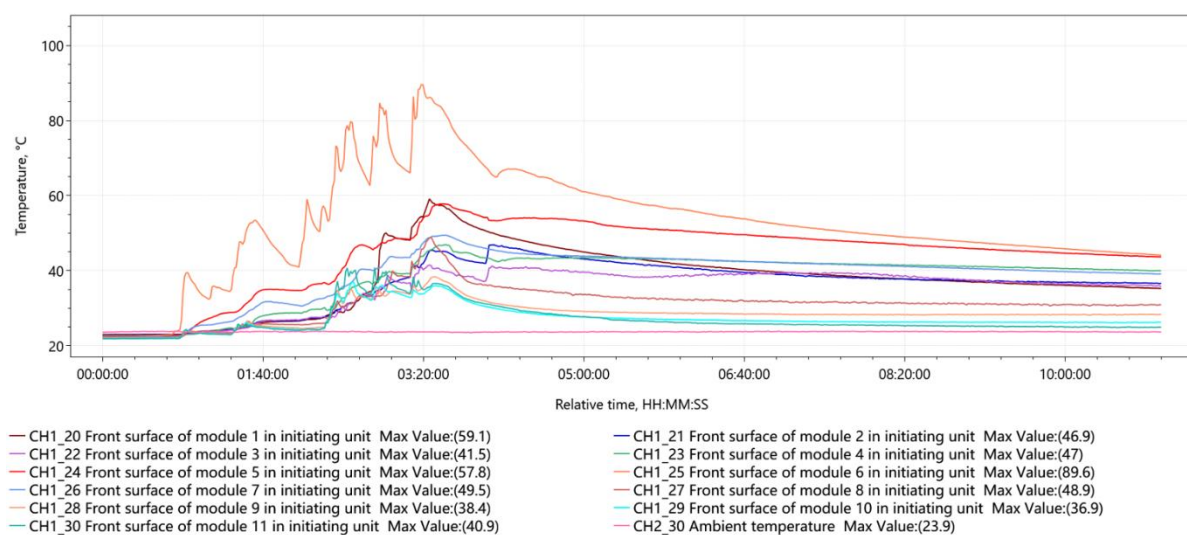


Figure 37. Temperature measurements in initiating BESS unit
(Remark: The temperature is averaged over 60 seconds.)



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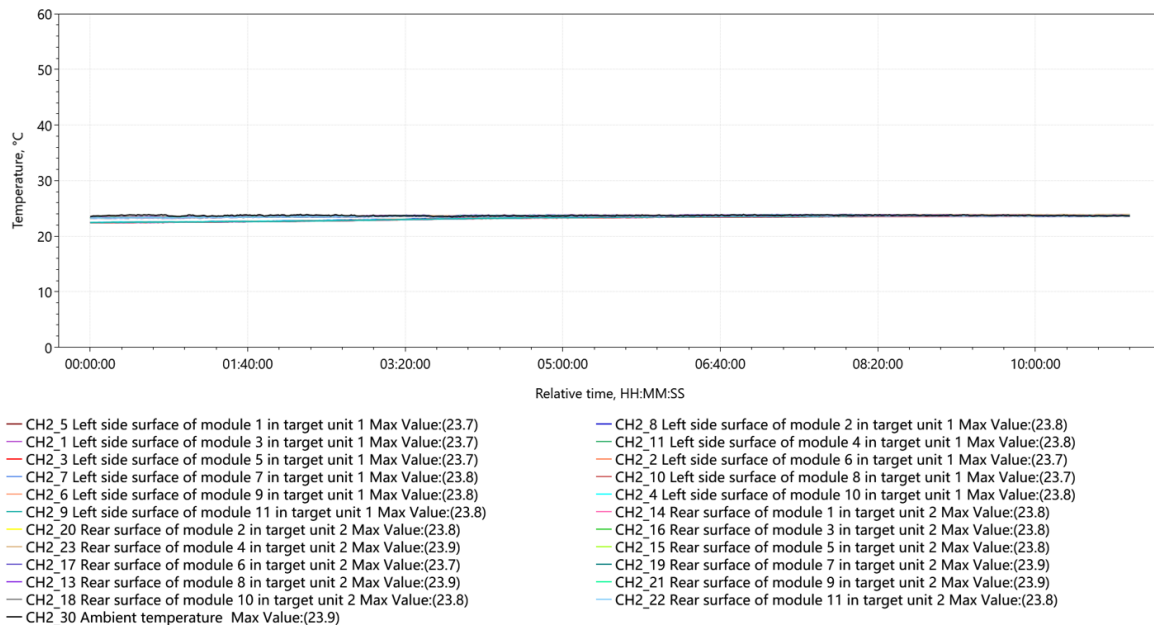


Figure 38. Temperature measurements in target BESS units
(Remark: The temperature is averaged over 60 seconds.)

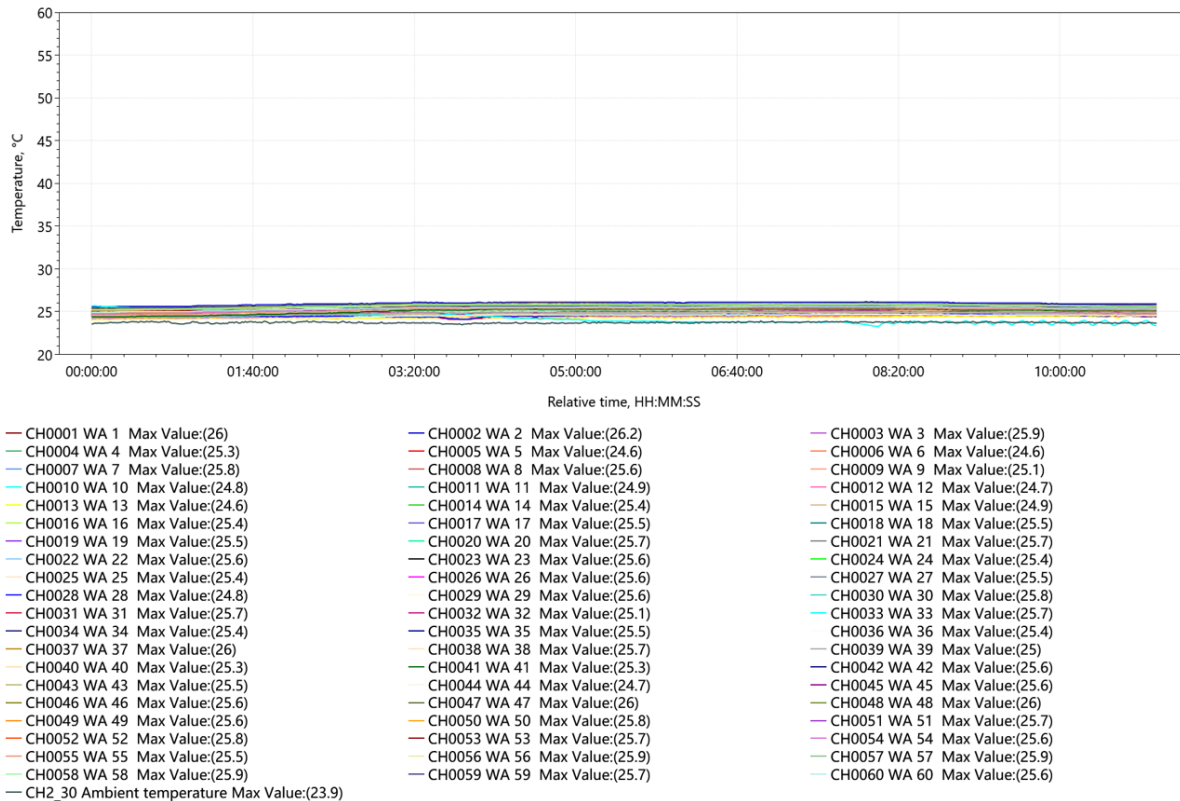


Figure 39. Temperature measurement results on wall A.
(Remark: The temperature is averaged over 60 seconds.)



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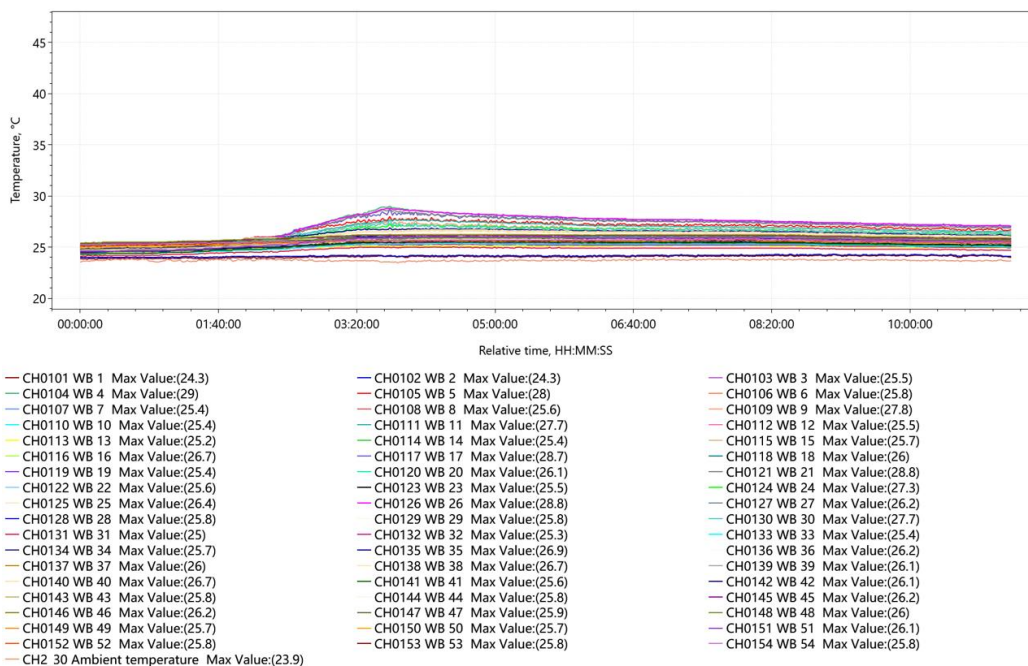


Figure 40. Temperature measurement results on wall B.
(Remark: The temperature is averaged over 60 seconds.)



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2. According to the standard, instruction sheets and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold. The applicant should ensure that the product in future production fulfils the receptive standard requirements.
3. The components performed satisfactorily during testing and are considered to be suitable for use in the sample tested.
4. No decision rule is specified by standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method")

- - - End of Report - - -



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