

**1.0 Products covered by this Test Summary**

Model Number	Description	Notes
LIBATTSMGMODA	Li-ion Battery Module A type (67Ah)	
LIBATTSMGMODB	Li-ion Battery Module B type (67Ah)	
See attachment 1 for full list of products containing the battery covered by this Battery Test Summary		

**Physical Description of Products**  
Lithium ion battery modules used in racks to supply back up energy for larger 3PH Uninterruptible Power Supply (UPS) systems and Energy Storage Systems (ESS). Modules are single batteries composed of multiple prismatic can cells in series (8S1P format) with differing wiring configurations (A and B Type).

1.1 Batteries in Products

#	Model Number	Description	Notes
1	ELPM182-00001/2	8S1P Plastic Module with A/B wire configurations	
2			

1.2 Cells in Batteries

#	Model Number	Description	Notes
3	CM0630R0002A	67AH, 3.8V Lithium-ion prismatic can cell	
4			

**2.0 Manufacturers of Cells/Batteries**

2.1 Battery Maker #1

Name	Address	Phone	Website
SAMSUNG SDI Co., Ltd.	508 Sungsung-Dong, Chonan City, Chungchongnam-Do, KOREA	+82 70 7125 0532	www.samsungsdi.com/index.html
NOTES:			

2.1 Cell Maker #3

Name	Address	Phone	Website
SAMSUNG SDI Co., Ltd.	508 Sungsung-Dong, Chonan City, Chungchongnam-Do,	+82 70 7125 0532	www.samsungsdi.com/index.html

	KOREA		
NOTES:			

### 3.0 Test Laboratories of Cells / Batteries

#### 3.1 Test for Battery/Cell #1

Name	Address	Phone	Website
NCT Co., Ltd.	2F, 553 Wonseol-ro, Baegam-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, KOREA	<b>+82-31-323-6074</b>	<b>http://www.nct.re.kr</b>
<b>Test ID No:</b>	NS1604-B002		
<b>Date:</b>	April 27, 2016		
NOTES:			

	Lithium Ion Cell
XXX	Lithium Ion Battery

	Lithium Metal Cell
	Lithium Metal Battery

### 4.0 Parameters of Cells/Batteries

Parameters	Cell	Battery
Mass in gram (g)	1888	17000
Lithium ion Indicate watt-hour rating (Wh)	254 Wh	2036 Wh
Lithium metal Indicate lithium metal content in gram (g)	25.7	205.6

### Physical Description of Cells / Batteries

	<p><b>Cell</b></p> <ul style="list-style-type: none"> <li>Highly reliable li-ion battery prismatic can cell</li> <li>Rated at 67 Ah, nominal voltage 3.8 V</li> </ul>		<p><b>Module</b></p> <ul style="list-style-type: none"> <li>Contains eight cells in series (8S1P)</li> <li>Module includes battery management system (BMS)</li> </ul>
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## 5.0 List of tests conducted and results

Test	Pass	Fail	N/A
T1 – Altitude simulation	X		
T2 – Thermal Tests	X		
T3 – Vibration	X		
T4 – Shock	X		
T5 – External Short Circuit	X		
T6 – Impact - for cylindrical cells having a diameter of at least 18mm. See Section 6.0			X
T6 – Crush - for prismatic cells, pouch cells, button cells and cylindrical cells having a diameter of less than 18mm. See Section 6.0	X		
T7 – Overcharge	X		
T8 – Forced Discharge	X		

## 6.0 UN38.3 Test Conformation for the Cells inside the battery:

	Cell UN 38.3 Test Confirmed (Yes or No)
When no separate document for the cells is provided, this confirms that the cells inside the battery have successfully passed the UN 38.3 test. In this case under section 5.0 the T6 and T8 must be marked as “passed” and here under section 6.0 “Cell UN 38.3 Test confirmed” needs to be Yes.	YES

## 7.0 Reference to assembled battery testing requirements

	Not Applicable
	XXX

## 8.0 Reference to the edition on the Manual of Tests and Criteria applied

ST/SG/AC.10/11/Rev.5/Amend.1  
Recommendations on the Transport of Dangerous Goods:  
Manual of Tests and Criteria, Part III, Sub-Section 38.3  
Lithium metal and lithium ion batteries  
United Nations

## 9.0 Manufacture of the cell / battery is in accordance with quality management system as required by the regulations:

Schneider Electric certifies that all articles described in this Test Survey are in compliance with all applicable Schneider Electric Product Specifications, Manufacturing Processes, Quality Control Testing, Quality Plan per ISO9001: 2008, and Environmental guidelines.

## 10.0 Certification

Company: Schneider Electric – Secure Power Division

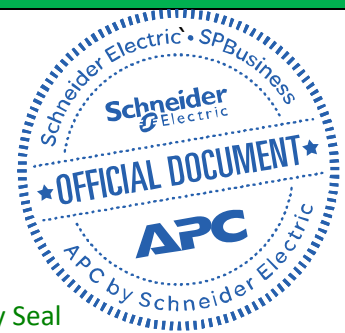
Signature:



Authorized representative:

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Director, Sustainability Office  
EMAIL: raymond.lizotte@SE.com  
Phone: +1 978-691-1468

Date of compilation: November 11, 2019  
Place of expertise: Schneider Electric Andover R&D Center  
Andover, MA 01810  
United States



Company Seal

## 11.0 Attachments

Attachment 1 – list of Products containing products covered by this Test Report Summary	
LIBATTSMGIEC	Li-ion Battery Rack Type E - IEC
LIBATTSMGEUL	Li-ion Battery Rack Type E - UL
LIBATTSMGGIEC	Li-ion Battery Rack Type G - IEC
LIBATTSMGGUL	Li-ion Battery Rack Type G - UL
LIBATTSMGMODA	Li-ion Battery Module A type (67Ah)
LIBATTSMGMODB	Li-ion Battery Module B type (67Ah)
LIBATTSMGOIEC	Li-ion Battery Rack Type O - IEC
LIBATTSMGOUL	Li-ion Battery Rack Type O - UL
LIBATTSMGSIEC	Li-ion Battery Rack Type S - IEC
LIBATTSMGSUL	Li-ion Battery Rack Type S – UL
WLIBCONV10H-LB-10	Li-ion Batt Conversion Srvc w-(10) Type O Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV10H-LB-13	Li-ion Batt Conversion Srvc w-(10) Type S Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV10-LB-10	Li-ion Batt Conversion Srvc w-(10) Type O Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV10-LB-13	Li-ion Batt Conversion Srvc w-(10) Type S Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV12H-LB-10	Li-ion Batt Conversion Srvc w-(12) Type O Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV12H-LB-13	Li-ion Batt Conversion Srvc w-(12) Type S Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV12-LB-10	Li-ion Batt Conversion Srvc w-(12) Type O Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV12-LB-13	Li-ion Batt Conversion Srvc w-(12) Type S Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV14H-LB-10	Li-ion Batt Conversion Srvc w-(14) Type O Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV14H-LB-13	Li-ion Batt Conversion Srvc w-(14) Type S Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV14-LB-10	Li-ion Batt Conversion Srvc w-(14) Type O Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV14-LB-13	Li-ion Batt Conversion Srvc w-(14) Type S Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV16H-LB-10	Li-ion Batt Conversion Srvc w-(16) Type O Rack IEC Solution - Electric Refit Quoted Separately
WLIBCONV16H-LB-13	Li-ion Batt Conversion Srvc w-(16) Type S Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV16-LB-10	Li-ion Batt Conversion Srvc w-(16) Type O Rack UL Solution - Electric Refit Quoted Separately
WLIBCONV16-LB-13	Li-ion Batt Conversion Srvc w-(16) Type S Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV1H-LB-17	Li-ion Batt Conversion Srvc w-(1) Type G Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV1-LB-16	Li-ion Batt Conversion Srvc w-(1) Type E Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV1-LB-167	Li-ion Batt Conversion Srvc w-(1) Type E Rack UL Solution for G7K - Electric Refit Quoted Separately
WLIBCONV1-LB-17	Li-ion Batt Conversion Srvc w-(1) Type G Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV2H-LB-10	Li-ion Batt Conversion Srvc w-(2) Type O Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV2H-LB-17	Li-ion Batt Conversion Srvc w-(2) Type G Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV2-LB-10	Li-ion Batt Conversion Srvc w-(2) Type O Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV2-LB-16	Li-ion Batt Conversion Srvc w-(2) Type E Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV2-LB-167	Li-ion Batt Conversion Srvc w-(2) Type E Rack UL Solution for G7K - Electric Refit Quoted Separately
WLIBCONV2-LB-17	Li-ion Batt Conversion Srvc w-(2) Type G Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV3H-LB-17	Li-ion Batt Conversion Srvc w-(3) Type G Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV3-LB-16	Li-ion Batt Conversion Srvc w-(3) Type E Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV3-LB-167	Li-ion Batt Conversion Srvc w-(3) Type E Rack UL Solution for G7K - Electric Refit Quoted Separately

WLIBCONV3-LB-17	Li-ion Batt Conversion Srvc w-(3) Type G Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV4H-LB-10	Li-ion Batt Conversion Srvc w-(4) Type O Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV4H-LB-13	Li-ion Batt Conversion Srvc w-(4) Type S Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV4H-LB-17	Li-ion Batt Conversion Srvc w-(4) Type G Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV4-LB-10	Li-ion Batt Conversion Srvc w-(4) Type O Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV4-LB-13	Li-ion Batt Conversion Srvc w-(4) Type S Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV4-LB-16	Li-ion Batt Conversion Srvc w-(4) Type E Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV4-LB-167	Li-ion Batt Conversion Srvc w-(4) Type E Rack UL Solution for G7K - Electric Refit Quoted Separately
WLIBCONV4-LB-17	Li-ion Batt Conversion Srvc w-(4) Type G Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV5H-LB-17	Li-ion Batt Conversion Srvc w-(5) Type G Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV5-LB-16	Li-ion Batt Conversion Srvc w-(5) Type E Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV5-LB-167	Li-ion Batt Conversion Srvc w-(5) Type E Rack UL Solution for G7K - Electric Refit Quoted Separately
WLIBCONV5-LB-17	Li-ion Batt Conversion Srvc w-(5) Type G Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV6H-LB-10	Li-ion Batt Conversion Srvc w-(6) Type O Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV6H-LB-13	Li-ion Batt Conversion Srvc w-(6) Type S Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV6H-LB-17	Li-ion Batt Conversion Srvc w-(6) Type G Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV6-LB-10	Li-ion Batt Conversion Srvc w-(6) Type O Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV6-LB-13	Li-ion Batt Conversion Srvc w-(6) Type S Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV6-LB-16	Li-ion Batt Conversion Srvc w-(6) Type E Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV6-LB-167	Li-ion Batt Conversion Srvc w-(6) Type E Rack UL Solution for G7K - Electric Refit Quoted Separately
WLIBCONV6-LB-17	Li-ion Batt Conversion Srvc w-(6) Type G Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV7H-LB-17	Li-ion Batt Conversion Srvc w-(7) Type G Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV7-LB-16	Li-ion Batt Conversion Srvc w-(7) Type E Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV7-LB-167	Li-ion Batt Conversion Srvc w-(7) Type E Rack UL Solution for G7K - Electric Refit Quoted Separately
WLIBCONV7-LB-17	Li-ion Batt Conversion Srvc w-(7) Type G Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV8H-LB-10	Li-ion Batt Conversion Srvc w-(8) Type O Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV8H-LB-13	Li-ion Batt Conversion Srvc w-(8) Type S Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV8H-LB-17	Li-ion Batt Conversion Srvc w-(8) Type G Rack IEC Solution - Electrical Refit Quoted Separately
WLIBCONV8-LB-10	Li-ion Batt Conversion Srvc w-(8) Type O Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV8-LB-13	Li-ion Batt Conversion Srvc w-(8) Type S Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV8-LB-16	Li-ion Batt Conversion Srvc w-(8) Type E Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONV8-LB-167	Li-ion Batt Conversion Srvc w-(8) Type E Rack UL Solution for G7K - Electric Refit Quoted Separately
WLIBCONV8-LB-17	Li-ion Batt Conversion Srvc w-(8) Type G Rack UL Solution - Electrical Refit Quoted Separately
WLIBCONVCST1-LB-16	Li-ion Batt Custom Conversion Srvc w- (1) Rack UL Solution