# Lithium Cells or Batteries Test Summary

## In Accordance with Sub-Section 38.3 of Manual of Test and Criteria

### Battery Transportation Information

<table>
<thead>
<tr>
<th>Name of cell, battery or product manufacturer, as applicable:</th>
<th>Cell, battery or product manufacturer’s contact information to include address, phone number, email address and website for more information:</th>
</tr>
</thead>
</table>
| Item Number : US18650G6E                                    | Tohoku Murata Manufacturing Co., Ltd.  
1-1 Shimosugishita, Takakura, Hiwada-machi,  
Koriyama-shi, Fukushima, 963-0531 Japan  
Phone : +81-24-955-7770  
e-mail : tmm-qa-compliance@murata.com  
Website : https://www.murata.com/en-global/group/tohokumurata  |
| Item Name : US18650GR                                       |                                                                                                                                  |
| Item Description : Lithium Ion Battery Cell                  |                                                                                                                                  |

<table>
<thead>
<tr>
<th>Name of the test laboratory to include address, phone number, email address and website for more information:</th>
<th>A unique test report identification number:</th>
<th>Date of the test report:</th>
</tr>
</thead>
</table>
| Tohoku Murata Manufacturing Co., Ltd.  
1-1 Shimosugishita, Takakura, Hiwada-machi,  
Koriyama-shi, Fukushima, 963-0531 Japan  
Phone : +81-24-955-7770  
e-mail : tmm-qa-compliance@murata.com  
Website : https://www.murata.com/en-global/group/tohokumurata  | QA-8145                                    | 18-Sep-18                |

### Description of cell or battery to include at a minimum: Lithium ion or Lithium metal cell or battery; Mass; Watt-hour rating, or lithium content; Physical description of the cell/battery; and Model

<table>
<thead>
<tr>
<th>Cell/battery Type</th>
<th>Lithium Ion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell or Battery</td>
<td>Cell</td>
</tr>
<tr>
<td>Cell or Battery Weight</td>
<td>45.3±2.0 g</td>
</tr>
<tr>
<td>LC or W/kg rating</td>
<td>7.8 Wh</td>
</tr>
</tbody>
</table>

### Testing Additional Comments:

Test T.1: Altitude Simulation : Pass  
Test T.2: Thermal Test : Pass  
Test T.3: Vibration : Pass  
Test T.4: Shock : Pass  
Test T.5: External short circuit : Pass  
Test T.6: Impact : Pass  
Test T.7: Overcharge : Not applicable  
Test T.8: Forced discharge : Pass

### Reference to assembled battery testing requirements, if applicable (i.e., 38.3.3;(f) and 38.3.3;(g): Not Applicable

### Reference to the revised edition of the Manual of Test and Criteria used and to amendments thereto, if any:

Revision 5 Amendment 2

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**PRODUCT CLASSIFICATION FOR TRANSPORT (According to UN – DGP)**

<table>
<thead>
<tr>
<th>UN Classification:</th>
<th>Proper Shipping Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN3480</td>
<td>Lithium Ion Battery</td>
</tr>
</tbody>
</table>

**Signature with name and title of signatory as an indication of the validity of information provided:**

Kei Hiratsuka  
Product Compliance Manager

**Date document was generated:**

21-Nov-19

This document remains valid as long as no changes, modification, or additions are made to the model(s) described in this document, after being transported from a Tohoku Murata Manufacturing.

The model(s) has (have) been classified according to the applicable transport regulations and the UN Manual of Tests and Criteria as of the date of the certification. The model(s) must be packed, labeled, and documented according to country and other international regulations for transportation.