### Lithium Ion or Lithium Polymer Cells and Batteries (UN 3480 and UN 3481)

**Note:** Indicated in blue letters are the revised points in January 2019.

#### How are the lithium ion cells/batteries packed?

<table>
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<tr>
<th>Section</th>
<th>Required</th>
<th>Not Required</th>
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</table>

#### Containing only cells/batteries (P1966)

**Marking requirements as DG shall be met.**

- **Statement:** "Lithium ion or lithium polymer cells and batteries (UN 3480 and UN 3481) must be carried as Class 9 Dangerous Goods.
- **Lithium ion or Lithium polymer cells and Batteries (UN 3480 and UN 3481) must be marked as Solvent of Class 9.
- **Lithium ion or Lithium polymer cells and Batteries (UN 3480 and UN 3481) must be marked with the following symbols:**
  - PI965
  - UN3480
  - PI966
  - UN3481

#### Packed with Equipment (P1966)

**Not Required**

1. Lithium battery Class 9 label shall be attached.
2. Marking requirements as DG shall be met in accordance with Section 7 of the DGR.
3. Lithium battery mark shall be attached.
4. Marking requirements as Overpack of DG, under Section 7 of P1966, shall be met, if applicable.

#### Contained in Equipment (P1967)

**Required**

1. Lithium battery Class 9 label shall be attached.
2. Marking requirements as DG shall be met in accordance with Section 7 of the DGR.
3. Lithium battery mark shall be attached.
4. Marking requirements as Overpack of DG, under Section 7 of P1966, shall be met, if applicable.

#### Notes:

- Manufacturers and subsequent distributors of cells or batteries manufactured after 30 June 2015 must make available the test summary as specified in the UN Manual of Tests and Criteria, Part III, sub-section 38.5, paragraph 38.5.5. This test summary must be made available from 1 January 2020. (Prior notice)

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### Limitation

- **Lithium ion cells/batteries may not be packed under Section II of PI967** if the operator is not an operational electronic device, having strong characteristics as "battery," the main function of which is to charge or supply power to another electronic device. For this reason, JAL will NOT handle these products as "Powerbank" and "Smart Luggage" (Revised in Jan., 2019)

#### Number of cells or batteries contained in one package

- **For cells:** No more than 2.7Wh but not more than 20Wh
- **For batteries (if the watt-hour rating is exceeding 20 Wh per cell):**
  - For Passenger Aircraft: 5kg
  - For Cargo Aircraft only: 35kg
- **For batteries (if the watt-hour rating is exceeding 100 Wh per battery):**
  - For Passenger Aircraft only: 5kg
  - For Cargo Aircraft only: 5kg

#### Max. net quantity of lithium ion cells or batteries per package

- **Max. net quantity of cells per package:** Not applicable
- **Max. net quantity of lithium ion cells or batteries per package:** Not applicable
- **Max. net quantity of lithium ion cells or batteries per package:** Not applicable

### Shipper's Declaration

1. **Lithium battery Class 9 label shall be attached.**
2. **Marking requirements as DG shall be met in accordance with Section 7 of the DGR.**
3. **Marking requirements as Overpack of DG shall be met, if applicable.**

#### Labeling, Marking

1. Lithium battery Class 9 label shall be attached.
2. Marking requirements as DG shall be met in accordance with Section 7 of the DGR.
3. Lithium battery mark shall be attached.
4. Marking requirements as Overpack of DG shall be met, if applicable.

#### On the AWB

1. **Dangerous goods as per attached shipper's declaration** must be shown on the AWB.
2. **Dangerous goods as per attached DGD** must be shown on the AWB.
3. **Dangerous goods as per attached shipper's declaration** or "Cargo Aircraft Only" or "CAO" must be shown on the AWB.

#### Shipment

1. Lithium batteries classified in Class 1 other than Division 1.4S, Division 2.1, Class 3, Division 4.1, or Division 5.1. cannot be packed in unapproved UN packaging meeting PG II DGR.

#### Overpack

1. Packages containing lithium batteries classified in Class 1 other than Division 1.4S, Division 2.1, Class 3, Division 4.1, or Division 5.1. may not be placed in an overpack with DGs classified in Class 1 other than Division 1.4S, Division 2.1, Class 3, Division 4.1, or Division 5.1.

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### Summary

- **For cells, a Watt-hour rating is exceeding 20 Wh per cell? or For batteries, a Watt-hour rating is exceeding 100 Wh per battery?**
  - Yes
  - No

- **Cell(s) or battery(s) in one package:**
  - No more than 8 cells
  - Not more than 1 battery

- **Number of cells or batteries contained in one package:**
  - Not more than 2.7Wh but not more than 20Wh
  - Not more than 2.7Wh but not more than 100Wh
  - Not more than 8 cells or 1 battery
  - Not more than 2.7Wh but not more than 20Wh
  - Not more than 8 cells or 1 battery

- **Max. number of batteries per package:**
  - For Passenger Aircraft: 5kg
  - For Cargo Aircraft only: 35kg

- **Max. number of cells per package:**
  - For Passenger Aircraft: 5kg
  - For Cargo Aircraft only: 8kg

#### Container

1. Container for the transportation of Lithium ion or Lithium polymer cells and batteries as Class 9 must not exceed 100kg (The packaging must be capable of withstand a 1.2m drop test.)

#### ULD

1. **Lithium battery mark shall be attached.**
2. **Marking requirements as DG shall be met in accordance with Section 7 of the DGR.**
3. **Lithium battery mark shall be attached.**
4. **Marking requirements as Overpack of DG shall be met, if applicable.**

#### Summary

1. Lithium ion or Lithium polymer cells and batteries must not exceed 10kg per cell or battery,
2. Walton hour rating is exceeding 100 Wh per battery?

### Limitation

- **Lithium ion or Lithium polymer cells and batteries may not be packed under Section II of PI967** if the operator is not an operational electronic device, having strong characteristics as "battery," the main function of which is to charge or supply power to another electronic device. For this reason, JAL will NOT handle these products as "Powerbank" and "Smart Luggage" (Revised in Jan., 2019)