


<b>Irish Aviation Authority</b> The Times Building 11–12 D’Olier Street Dublin 2, Ireland <a href="http://www.iaa.ie">www.iaa.ie</a>	<b>Údarás Eitlíochta na hÉireann</b> Foirgneamh na hAmanna 11–12 Sráid D’Olier Baile Átha Cliath 2, Éire	DG Info. 001 Revision: 02 Date: 02/04/2026	
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## Title: Shipping Lithium and Sodium Batteries – Labelling, Marking and Documentation Information

### 1. Introduction

The purpose of this document is to promulgate information to the Aviation community about the current requirements for labelling, marking and documentation requirements when shipping consignments of Lithium and Sodium Batteries.

### 2. Packing and Labelling Requirements

There are differing requirements depending on if the batteries are shipped

- a. On their own
- b. Packed with equipment or
- c. Contained in Equipment

In each of the above categories, there are further, differing requirements, depending on

- a. The Watt Hours of the battery cells or batteries or
- b. The Lithium or Sodium content of the cells or batteries

3. See the **table** on the following pages, collating the various labelling, marking and documentation requirements from the ICAO Technical Instructions 2025-2026 and IATA DRG, Edition 67. Please refer to these documents for the full packing instructions.

### 4. General Requirements:


The following requirements apply to all lithium or sodium cells and batteries:

(a) cells or batteries identified as being damaged or defective, in accordance with Special Provision A154, are forbidden for transport;


(b) cells and batteries must be protected so as to prevent short circuits. This includes protection against contact with electrically conductive materials within the same packaging that could lead to a short circuit.

### 5. References:


- ICAO Doc 9284 – Technical Instructions for the Safe Transport of Dangerous Goods by Air (2025-2026 Edition)
- IATA Dangerous Goods Regulations (DGR) (67<sup>th</sup> Edition)

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<h2 style="text-align: center;">Consignments of Batteries</h2>		
<p style="text-align: center; color: green;">[Always check State Variations and Operator Variations for any additional requirements]</p>		
<b>UN3480</b> Lithium ion batteries  State of Charge not exceeding 30%  State of Charge over 30% requires approval of State of Origin and State of Operator under SP A331	<b>PI 965, Section IA –</b>  cells > 20 Wh, batteries > 100 Wh,  package limit 35kg	<b>Requires:</b> UN outer packaging Class 9 Battery Hazard Label Cargo only label DG Transport Document (or shippers declaration) NOTOC
	<b>PI 965, Section IB –</b>  cells <= 20 Wh, batteries <= 100 Wh,  package limit 10kg	<b>Requires:</b> Class 9 Battery Hazard Label <b>and</b> Battery mark Cargo only label, DG Transport Document (or shippers declaration) NOTOC  <b>does Not Require:</b> UN packaging
<b>UN3090</b> Lithium Metal batteries	<b>PI 968, Section IA –</b>  cells > 1g lithium content, batteries > 2g lithium content,  package limit 35kg	<b>Requires:</b> UN outer packaging Class 9 Battery Hazard Label Cargo only label DG Transport Document (or shippers declaration) NOTOC
	<b>PI 968, Section IB –</b>  cells <= 1g lithium content, batteries <= 2g lithium content  package limit 2.5kg	<b>Requires:</b> Class 9 Battery Hazard Label <b>and</b> Battery mark Cargo only label, DG Transport Document (or shippers declaration) NOTOC  <b>does Not Require:</b> UN packaging
<b>UN3551</b> Sodium Ion Batteries  State of Charge not exceeding 30%  State of Charge over 30% requires approval of State of Origin and State of Operator under SP A331	<b>PI 976</b>  Package limit 35 kg	<b>Requires:</b> UN outer packaging Class 9 Battery Hazard Label Cargo only label DG Transport Document (or shippers declaration) NOTOC

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<p align="center"><b>Batteries Packed With Equipment</b></p>		
<p align="center">[Always check State Variations and Operator Variations for any additional requirements]</p>		
<p><b>UN 3481, UN 3091, UN 3552</b> Lithium Ion / Lithium Metal / Sodium Ion</p> <p><b>Section I –</b> Packed <b>with</b> equipment</p> <p>Number of cells / batteries must not exceed amount required for operation plus two spare sets</p> <p>* State of Charge not exceeding 30%</p> <p>State of Charge over 30% requires approval of State of Origin and State of Operator</p>	<p><b>PI 966*, PI 969, PI 977</b></p> <p>Cells: &gt;20 Wh / &gt;1g / &gt;20 Wh Batteries: &gt;100 Wh / &gt;2g / &gt;100 Wh</p> <p>Package limits: 5 kg on passenger aircraft 35 kg on cargo only label aircraft</p>	<p><b>Requires:</b> UN outer packaging Class 9 Battery Hazard Label DG Transport Document (or shippers declaration) Cargo only label (if applicable) NOTOC</p>
<p><b>UN 3481, UN 3091, UN 3552</b> Lithium Ion / Lithium Metal / Sodium Ion</p> <p><b>Section II –</b> Packed <b>with</b> equipment</p> <p>Number of cells / batteries must not exceed amount required for operation plus two spare sets</p> <p>* Cells and batteries in excess of 2.7 wh must be offered with a State of Charge not exceeding 30%</p> <p>*State of Charge over 30%, &gt;2.7 wh, requires approval of State of Origin and State of Operator and must be offered under <b>Section I</b> of PI 966</p>	<p><b>PI 966*, PI 969, PI 977</b></p> <p>Cells: &lt;= 20 Wh / &lt;=1g / &lt;= 20 Wh Batteries: &lt;=100 Wh/&lt;=2g /&lt;=100 Wh</p> <p>Package limits: 5 kg on passenger aircraft 5 kg on cargo only label aircraft</p>	<p><b>Requires:</b> Battery mark Compliance statement on AWB Cargo only label (if applicable)</p> <p><b>Does Not Require</b> UN packaging DG Transport Document (or shippers declaration) NOTOC</p>

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<p align="center"><b>Batteries Contained In equipment</b></p>		
<p align="center">[Always check State Variations and Operator Variations for any additional requirements]</p>		
<p><b>UN 3481, UN 3091, UN 3552</b> Lithium Ion / Lithium Metal / Sodium Ion</p> <p><b>Section I – Contained in equipment</b></p> <p>*The cells or batteries at a state of charge not exceeding 30% of their rated capacity; or an indicated battery capacity not exceeding 25%</p>	<p><b>PI 967*, PI 970, PI 978</b></p> <p>Cells: &gt;20 Wh / &gt;1g / &gt;20 Wh Batteries: &gt;100 Wh / &gt;2g / &gt;100 Wh</p> <p>Package limits: 5 kg on passenger aircraft 35 kg on cargo only label aircraft</p>	<p><b>Requires:</b> Class 9 Battery Hazard Label DG Transport Document (or shippers declaration) Cargo only label (if applicable) NOTOC</p> <p><b>Does Not Require</b> UN packaging</p>
<p><b>UN 3481, UN 3091, UN 3552</b> Lithium Ion / Lithium Metal / Sodium Ion</p> <p><b>Section II – Contained in equipment</b></p> <p>The application of the <b>Battery mark does not apply to:</b></p> <ul style="list-style-type: none"> <li>•packages <b>containing only button cell batteries installed in equipment</b> (including circuit boards); or</li> <li>•<b>consignments of two packages or less where each package contains no more than four cells or two batteries installed in equipment.</b></li> </ul> <p>*The cells or batteries at a state of charge not exceeding 30% of their rated capacity; or an indicated battery capacity not exceeding 25%</p>	<p><b>PI 967*, PI 970, PI 978</b></p> <p>Cells: &lt;= 20 Wh / &lt;=1g / &lt;= 20 Wh Batteries: &lt;=100 Wh/&lt;=2g/&lt;=100 Wh</p> <p>Package limits: 5 kg on passenger aircraft 5 kg on cargo only label aircraft</p> <p><b>Where a package does not require a Battery mark – it is effectively outside the regulations and is not treated as Dangerous Goods.</b></p>	<p><b>Requires:</b> Battery mark (if applicable) Compliance statement on AWB where a Battery Mark is applied – <b>no compliance statement required, when no Battery mark required.</b> Cargo only label (if applicable)</p> <p><b>Does Not Require</b> UN packaging DG Transport Document (or shippers declaration) NOTOC</p>

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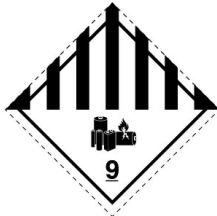
**Údarás Eitlíochta na hÉireann**  
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**Class 9 Lithium Batteries or Sodium Ion Batteries Hazard Label**

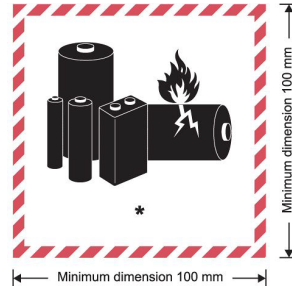
7.3.18.2 Class 9—Lithium Batteries or Sodium Ion Batteries  
Figure 7.3.X  
Class 9—Lithium Batteries or Sodium Ion Batteries



Name: Lithium Batteries or Sodium Ion Batteries  
Cargo IMP Code: RBI, RBM, RLI and RLM  
Minimum dimensions: 100 x 100 mm

**Battery Mark**

Figure 7.1.C  
Battery Mark (7.1.5.5)



\*Place for UN number(s)

**Example IATA Shippers Declaration**

Figure 8.1.P  
Shipper's Declaration Completion—Example 12

NATURE AND QUANTITY OF DANGEROUS GOODS					
Dangerous Goods Identification					
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Hazard)	Packing Group	Quantity and type of packing	Authorization
UN 3480	Lithium ion batteries	9		1 Fibreboard box x 5.5 kg	965 IB

**Example of a compliance statement**

Figure 8.2.H  
Consignment Containing Lithium Batteries Packed According to Section II of PI 966 and PI 967

Airport of Destination		Requested Flight/Date		Amount of Insurance		Remarks: If carrier offers insurance, and such insurance is required in accordance with the conditions thereof, indicate amount to be insured in figures in the marked "Amount of Insurance".	
Handling Information							
ICD							
No. of Pallets/RFU*	Gross Weight	Net Weight	Rate Class (Commodity Class No.)	Chargeable Weight	Rate/Charge	Total	Nature and Quantity of Goods (incl. Dimensions or Volume)
							Lithium ion batteries in compliance with Section II of PI 966 and PI 967

9.1.3.3 Certain items of dangerous goods are not required to follow the complete acceptance procedures listed in 9.1.3.1. IATA Table 9.1.A serves as guidance to operator personnel on which provisions apply to certain items of dangerous goods. Battery info extracted here.

Table 9.1.A Applicable Acceptance Procedures Summary (9.1.3.3)

UN	Description	Acceptance Procedures					
		Statement on the air waybill, when air waybill used (8.2.5, 9.2.5 or applicable PI)	Provision of information to pilot-in-command (NOTOC) (8.5.1.1)	Identification of Unit Load Device - ULD (9.3.9)	IATA Shipper's Declaration for Dangerous Goods (8.1)	Formal Acceptance and Acceptance Checklist (9.1.2 & 9.1.3)	Battery Mark (7.1.5.5)
UN 3091	Lithium metal batteries contained in equipment (including lithium alloy batteries) in compliance with Section II of Packing Instruction 570 with more than 4 cells or 2 batteries installed in equipment	NO	NO	NO	NO	YES <sup>(1)</sup>	YES
UN 3091	Lithium metal batteries contained in equipment (including lithium alloy batteries) in compliance with Section II of Packing Instruction 570 with no more than 4 cells or 2 batteries installed in equipment	NO	NO	NO	NO	NO	NO
UN 3091	Lithium metal batteries packed with equipment (including lithium alloy batteries) in compliance with Section II of Packing Instruction 582	NO	NO	NO	NO	YES <sup>(1)</sup>	YES
UN 3481	Lithium ion batteries contained in equipment (including lithium polymer batteries) in compliance with Section II of Packing Instruction 567 with more than 4 cells or 2 batteries installed in equipment	NO	NO	NO	NO	YES <sup>(1)</sup>	YES
UN 3481	Lithium ion batteries contained in equipment (including lithium polymer batteries) in compliance with Section II of Packing Instruction 567 with no more than 4 cells or 2 batteries installed in equipment	NO	NO	NO	NO	NO	NO
UN 3481	Lithium ion batteries packed with equipment (including lithium polymer batteries) in compliance with Section II of Packing Instruction 566	NO	NO	NO	NO	YES <sup>(1)</sup>	YES
UN 3032	Sodium ion batteries contained in equipment with organic electrolyte, in compliance with Section II of Packing Instruction 573 with more than 4 cells or 2 batteries installed in equipment	NO	NO	NO	NO	YES <sup>(1)</sup>	YES
UN 3032	Sodium ion batteries contained in equipment with organic electrolyte, in compliance with Section II of Packing Instruction 573 with no more than 4 cells or 2 batteries installed in equipment	NO	NO	NO	NO	NO	NO
UN 3032	Sodium ion batteries packed with equipment with organic electrolyte, in compliance with Section II of Packing Instruction 577	NO	NO	NO	NO	YES <sup>(1)</sup>	YES
UN 3491 UN 3021 UN 3032	Button/coin cell batteries installed in equipment (may include more than 4 cells) in compliance with section II of Packing Instructions 567, 570 and 576	NO	NO	NO	NO	NO	NO

(1): The air waybill statement is as shown in the applicable packing instruction.