

















Lithium ion and lithium polymer cells or batteries - 2017 IATA DGR



| | UN3480 - PI965  | | | UN 3481 -PI966   | UN3481 - PI967  | | |
|--|---|------------------------------|----------------------------------|--|--|---|---|
| Description | Lithium Cells / Batteries loose (bulk) <i>Important: State of Charge (SoC) of the battery/ cell must not exceed 30%</i> | | | Lithium Cells/Batteries packed with equipment | Lithium Cells / Batteries contained in equipment | | |
| Section | PI965 - Section II | | | PI965 - Section IB | PI966 - Section II | PI967 - Section II | |
| Lithium ion cells / batteries capacity | Per cell or battery ≤ 2.7Wh | Per cell: > 2.7Wh but ≤ 20Wh | Per battery: > 2.7Wh but ≤ 100Wh | Per cell: ≤ 20Wh Per battery: ≤ 100Wh | Per cell: ≤ 20Wh Per battery: ≤ 100Wh | Per cell: ≤ 20Wh Per battery: ≤ 100Wh | Per cell: ≤ 20Wh Per battery: ≤ 100Wh |
| Maximum number of cells / batteries per package and packages/consignment | N/A | 8 cells | 2 batteries | >2 batteries > 8 cells | Those necessary to power the equipment and 2 spare | ≤ 2 batteries or 4 cells ≤ 2 packages per consignment | > 2 batteries or 4 cells and consignments with more than 2 packages with ≤ 2 batt. or 4 cells |
| Maximum net weight per package | 2.5 kg (CAO) | N/A | N/A | 10 kg (CAO) | 5 kg (PAX & CAO) | 5 kg (PAX & CAO) | 5 kg (PAX & CAO) |
| “Description of content” statement as per IATA DGR | <i>“Lithium ion batteries in compliance with Section II of PI965” and “CAO”</i> | | | <i>“Dangerous goods as per attached Shipper’s Declaration” and “CAO”</i> | <i>“Lithium ion batteries in compliance with Section II of PI966”</i> | No Requirements | <i>“Lithium ion batteries in compliance with Section II of PI967”</i> |
| Labeling |   | | |    |  | No Requirements |  |
| Accepted in Time Definite International (door to door) | Yes (See “Note 1”) | | | Yes (See “Note 1”) | Yes | Yes | Yes |
| Account approval required for Time Definite Int’l | Yes <i>Separate approval for PI965 Section II</i> | | | Yes | Yes | No | Yes |
| Requirements for Air Capacity Sales (airport to airport) | Select “LB” and mention “CAO” in the restricted commodity type | | | Select “DG” and mention “CAO” in the restricted commodity type | Select “LB” and mention “Section II” in the restricted commodity type | No Requirements | Select “LB” and mention “Section II” in the restricted commodity type |

Note 1: Limited service worldwide due to CAO limitations. For additional information please contact your local DHL representative. (PAX – Passenger and Cargo Aircraft, CAO – Cargo Aircraft Only)

  **As of 1 January 2017:** a new hazard label comes into effect with a 2-year transitional period during which time either the existing Class 9 Miscellaneous Dangerous Goods hazard label or the new Class 9 Lithium Battery hazard label may be applied to packages containing lithium batteries prepared in accordance with Section I, IA or IB of the lithium battery packing instructions. Also a new mark comes into effect with a 2-year transition period during which time either the lithium battery mark or the lithium battery handling label may be applied to packages containing lithium batteries prepared in accordance with Section IB or Section II of the lithium battery packing instructions. The need for an additional document to accompany the consignments is no longer required.











| Section | PI965 - Section IA <i>(State of Charge (SoC) ≤ 30%)</i>   | PI966 & PI967 - Section I  |
|--|--|---|
| Per Cell: > 20Wh Per Battery: > 100Wh | Accepted as Air Capacity Sales (See “Note 2”) - CAO: ≤ 35 kg UN specification packaging required Fully regulated dangerous goods - Class 9 – Select “DG” and mention “CAO” | Accepted as Air Capacity Sales (See “Note 2”) - PAX: ≤ 5 KG or CAO: ≤ 35 kg UN specification packaging required (only for PI966) Fully regulated dangerous goods - Class 9 – Select “DG” and mention “PAX” or “CAO” |

Note 2: Lithium batteries packed according to PI965 Section IA and PI966 / PI967 Section I are not accepted in Time Definite International when transported via road to, from or transiting an ADR member state.

IMPORTANT: RECALLED OR DEFECTED LITHIUM BATTERIES ARE FORBIDDEN FOR AIR TRANSPORT.

Lithium metal and lithium alloy cells or batteries - 2017 IATA DGR






| | UN3090 - PI968  | | | UN3091 - PI969   | UN3091 - PI970  | | |
|--|---|---------------------------|---|--|--|---|--|
| Description | Lithium Cells / Batteries loose (bulk) | | | Lithium Cells/Batteries packed with equipment | Lithium Cells / Batteries contained in equipment | | |
| Section | PI968 - Section II | | PI968 - Section IB | PI969 - Section II | PI970 - Section II | | |
| Lithium metal cells / batteries capacity | Per cell or battery ≤ 0.3g | Per cell: > 0.3g but ≤ 1g | Per battery: > 0.3g but ≤ 2g | Per cell: ≤ 1g Per battery: ≤ 2g | Per cell: ≤ 1g Per battery: ≤ 2g | | |
| Maximum number of cells / batteries per package and packages/consignment | N/A | 8 cells | 2 batteries | >2 batteries > 8 cells | Those necessary to power the equipment and 2 spare | ≤ 2 batteries or 4 cells ≤ 2 packages per consignment | > 2 batteries or 4 cells and consignments with more than 2 packages with ≤ 2 batt. or 4 cells |
| Maximum net weight per package | 2.5 kg (CAO) | N/A | N/A | 2.5 kg (CAO) | 5 kg (PAX & CAO) | 5 kg (PAX & CAO) | 5 kg (PAX & CAO) |
| "Description of content" statement as per IATA DGR | "Lithium metal batteries in compliance with Section II of PI968" and "CAO" | | "Dangerous goods as per attached Shipper's Declaration" and "CAO" | "Lithium metal batteries in compliance with Section II of PI969" | No Requirements | "Lithium metal batteries in compliance with Section II of PI970" | |
| Labeling |   | |   |  | No Requirements |  | |
| Accepted in Time Definite International (door to door) | Forbidden | | Yes (See "Note 1") | Yes | Yes | Yes | |
| Account approval required for Time Definite Int'l | N/A | | Yes | Yes | No | Yes | |
| Requirements for Air Capacity Sales (airport to airport) | Select " LB " and mention " CAO " in the restricted commodity type | | Select " DG " and mention " CAO " in the restricted commodity type | Select " LB " and mention " Section II " in the restricted commodity type | No Requirements | Select " LB " and mention " Section II " in the restricted commodity type | |

Note 1: Forbidden to, from, within the ASIA Pacific region due to air carriers restrictions.



As of 1 January 2017: a new hazard label comes into effect with a 2-year transitional period during which time either the existing Class 9 Miscellaneous Dangerous Goods hazard label or the new Class 9 Lithium Battery hazard label may be applied to packages containing lithium batteries prepared in accordance with Section I, IA or IB of the lithium battery packing instructions. Also a new mark comes into effect with a 2-year transition period during which time either the lithium battery mark or the lithium battery handling label may be applied to packages containing lithium batteries prepared in accordance with Section IB or Section II of the lithium battery packing instructions. The need for an additional document to accompany the consignments is no longer required.

| Section | PI968 - Section IA   | PI969 & PI970 - Section I  |
|-------------------------------------|--|--|
| Per Cell: > 1g Per Battery: > 2g | Accepted as Air Capacity Sales (See "Note 2") - CAO: ≤ 35 kg UN specification packaging required Fully regulated dangerous goods - Class 9 – Select " DG " and mention " CAO " | Accepted as Air Capacity Sales (See "Note 2") - PAX: ≤ 5 KG or CAO: ≤ 35 kg UN specification packaging required (only for PI969) Fully regulated dangerous goods - Class 9 – Select " DG " and mention " PAX " or " CAO " |

Note 2: Lithium batteries packed according to PI968 Section IA and PI969/ PI970 Section I are not accepted in Time Definite International when transported via road to, from or transiting an ADR member state.

IMPORTANT: RECALLED OR DEFECTED LITHIUM BATTERIES ARE FORBIDDEN FOR AIR TRANSPORT.