

LITHIUM BATTERIES GUIDANCE

**ACCORDING TO IATA DANGEROUS
GOODS REGULATION 56TH EDITION 2015**

Defective / Damaged Batteries



DHL will **NOT** accept any shipment with lithium batteries (ion or metal) that are **confirmed or suspected** to be defective* and/or damaged (*regardless of how the condition is and in any quantities*). DHL will not accept any battery recalled by the battery supplier/manufacturer and any waste meant for recycling or disposal purposes (in any condition).

**A defective battery may not exhibit any damage at all!*

Any equipment packed with or containing lithium batteries (in particular equipment returned for repair purposes as part of reverse logistics/service parts program) exhibiting above mentioned condition, must have the **batteries removed** from the equipment in order to be accepted for carriage with DHL.

2015 Lithium Batteries Regulations

An accompanying “**Transport Document**” is required for all Lithium Battery shipments under Section IB, and for the majority of shipments containing Lithium Batteries falling under Section II.

Transport Document for Lithium Batteries in Section IB and II	
AWB nr:	☎ : _____
Shipper:	Consignee: _____
I hereby declare that the shipment containing below mentioned Lithium Batteries is compliant with the ICAO / IATA DGR corresponding Packing Instruction and if applicable to ADR / IMDG Special Provision 188.	
Transport mode:	Contents description:
Air	<input type="checkbox"/> UN3480 Lithium Ion Batteries in compliance with Section II of PI965
	<input type="checkbox"/> UN3480 Lithium Ion Batteries in compliance with Section IB of PI965
	<input type="checkbox"/> UN3481 Lithium Ion Batteries in compliance with Section II of PI966
	<input type="checkbox"/> UN3481 Lithium Ion Batteries in compliance with Section II of PI967
	<input type="checkbox"/> UN3090 Lithium Metal Batteries in compliance with Section II of PI968 *
	<input type="checkbox"/> UN3090 Lithium Metal Batteries in compliance with Section IB of PI968
	<input type="checkbox"/> UN3091 Lithium Metal Batteries in compliance with Section II of PI969
Road / IMDG	<input type="checkbox"/> UN3091 Lithium Metal Batteries in compliance with Section II of PI970
	<input type="checkbox"/> Lithium Ion Batteries "Not restricted as per ADR / IMDG SP 188"
	<input type="checkbox"/> Lithium Metal Batteries "Not restricted as per ADR / IMDG SP 188"
* Lithium Metal Batteries in compliance with Section II of PI968 are FORBIDDEN in DHL TDI Express Network	
This package must be handled with care. A flammability hazard exist if the package is damaged. If the package is damaged in transportation, it must not be loaded until the condition of the contents can be verified. The batteries contained in this package must be inspected for damage and may only be repacked if they are intact and protected against short circuits.	
Warning: Lithium batteries that have been recalled by the manufacturer for safety reasons are forbidden for air transport.	

After filling the above required details, please fold this document along the line and place it in the clear plastic envelope in such way that all Lithium Batteries informations are clearly visible without been necessary to open the envelope for checking the content.	

Be aware that for shipments
to / within / from Asia
additional documents might be required.
Please contact your local customer
service representative for more details.

Click on the document to enlarge

2015 Lithium Batteries Regulations

Step 1 – What type of Battery are you shipping?

Lithium Ion Batteries

Rechargeable batteries commonly used in consumer electronics.
Most popular battery for portable electronic devices like laptops, mobile phones, MP3 players, camcorders etc.
A fire involving Lithium Ion batteries can be extinguished by an aircraft halon fire extinguisher.

Lithium Metal Batteries

Non-rechargeable.
Longer life than the normal alkaline batteries and can be used in toys, cameras, etc.
A fire involving Lithium Metal batteries can NOT be extinguished by an aircraft halon fire extinguisher.

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Step 2 – How are you shipping them?

Batteries packed
loose (in bulk)



Batteries packed
with equipment
(separately in the
same package)



Batteries contained in
equipment





2015 Lithium Batteries Regulations

Step 2 – How are you shipping them?

Batteries packed
loose (in bulk)



Batteries packed
with equipment
(separately in the
same package)



Batteries contained in
equipment



2015 Lithium Batteries Regulations



Step 3 – What is the capacity (Watt Hour rating) of your Battery?

Cells and
Batteries
 ≤ 2.7 Wh

Cells
 > 2.7 Wh
but ≤ 20 Wh

Batteries
 > 2.7 Wh
but ≤ 100 Wh

Cells
 > 20 Wh or
Batteries
 > 100 Wh

- A Cell is a single powered unit
- A Battery is a number of cells connected to each other

*The Watt Hours must be marked on the outside of the battery, for batteries manufactured as of January 2009. Laptops, mobile phones and other small consumer electronics have batteries with less than 100 Watt Hours (except perhaps some extra duration batteries – use the formula Ampere Hours x Voltage in case the Watt Hour rating is not marked on the battery).



Step 3 – How much Lithium does your Battery contain?

Cells and
Batteries
 ≤ 0.3 g

Cells
 > 0.3 g
but
 ≤ 1 g

Batteries
 > 0.3 g
but
 ≤ 2 g

Cells
 > 1 g
or Batteries
 > 2 g

- A Cell is a single powered unit
- A Battery is a number of cells connected to each other



Step 4 – How many Cells does your package have in total?



≤ 8 Cells



> 8 Cells

Note: Do not confuse package with overpack. There are no restrictions for the number of packages (and therefore cells) per overpack.



Step 4 – How many Batteries does your package have in total?

≤ 2 Batteries

> 2 Batteries

Note: Do not confuse package with overpack. There are no restrictions for the number of packages (and therefore batteries) per overpack.



Step 4 – How many Cells does your package have in total?

≤ 8 Cells

> 8 Cells

Note: Do not confuse package with overpack. There are no restrictions for the number of packages (and therefore cells) per overpack.



Step 4 – How many Batteries does your package have in total?

≤ 2 Batteries

> 2 Batteries

Note: Do not confuse package with overpack. There are no restrictions for the number of packages (and therefore batteries) per overpack.

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Step 3 – What is the capacity (Watt Hour rating) of your Battery?

Cells
 $\leq 20 \text{ Wh}$
or Batteries
 $\leq 100 \text{ Wh}$

Cells
 $> 20 \text{ Wh}$
or Batteries
 $> 100 \text{ Wh}$

- A Cell is a single powered unit
- A Battery is a number of cells connected to each other

* The Watt Hours must be marked on the outside of the battery, for batteries manufactured as of January 2009. Laptops, mobile phones and other small consumer electronics have batteries with less than 100 Watt Hours (except perhaps some extra duration batteries – use the formula Ampere Hours x Voltage in case the Watt Hour rating is not marked on the battery).

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Step 3 – What is the capacity (Watt Hour rating) of your Battery?

Cells
 $\leq 20 \text{ Wh}$
or Batteries
 $\leq 100 \text{ Wh}$

Cells
 $> 20 \text{ Wh}$
or Batteries
 $> 100 \text{ Wh}$

- A Cell is a single powered unit
- A Battery is a number of cells connected to each other

* The Watt Hours must be marked on the outside of the battery, for batteries manufactured as of January 2009. Laptops, mobile phones and other small consumer electronics have batteries with less than 100 Watt Hours (except perhaps some extra duration batteries – use the formula Ampere Hours x Voltage in case the Watt Hour rating is not marked on the battery).



Step 3 – How much Lithium does your Battery contain?

Cells
 ≤ 1 g
or Batteries
 ≤ 2 g

Cells
 > 1 g
or Batteries
 > 2 g



Step 3 – How much Lithium does your Battery contain?

Cells
 ≤ 1 g
or Batteries
 ≤ 2 g

Cells
 > 1 g
or Batteries
 > 2 g



Step 4 – How many Cells /Batteries does your package have in total?

≤ 4 Cells
or
 ≤ 2 Batteries

> 4 Cells
or
 > 2 Batteries

Note: Do not confuse package with overpack. There are no restrictions for the number of packages (and therefore cells /batteries) per overpack.



Step 4 – How many Cells /Batteries does your package have in total?

≤ 4 Cells
or
 ≤ 2 Batteries


> 4 Cells
or
 > 2 Batteries

Note: Do not confuse package with overpack. There are no restrictions for the number of packages (and therefore cells /batteries) per overpack.

2015 Lithium Batteries Regulations






UN3480, Lithium Ion Batteries - Packing Instruction 965 Section II

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery/cell must be</p> <ul style="list-style-type: none"> - protected against a short circuit - placed in inner packaging that completely enclose the cell/battery then placed in a strong rigid outer packaging (no UN specification required) <p>Strong outer packaging</p> <p>Maximum 2.5 kg net quantity per package</p>	1.2m drop tested	<p>The following statement is required on the waybill:</p> <p>“Lithium Ion Batteries in compliance with Section II of PI965”</p> <p>An accompanying document which states the following:</p> <p>" The package contains lithium ion cells or batteries. Handle with care as that a flammability hazard exists if the package is damaged. Special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary. A telephone number for additional information."</p>		<p><u>TDI</u></p> <p>account must be approved</p> <p><u>ACS</u></p> <p>ACP/LB booking mentioning Section II is required</p>

2015 Lithium Batteries Regulations




UN3480, Lithium Ion Batteries - Packing Instruction 965 Section IA

Packaging	Package Tests	Documentation	Labeling	DHL Product Available
<p>Each battery/cell must be</p> <ul style="list-style-type: none"> - protected against a short circuit - placed in inner packaging that completely enclose the cell/battery then placed in an outer packaging <p>UN specification packaging</p> <p>Maximum 5 kg net quantity per package for PAX shipments</p> <p>Maximum 35 kg net quantity per package for CAO shipments</p> <p>PAX = Passenger aircraft CAO = Cargo aircraft</p>	<p>Packing Group II performance standards</p>	<p>Shipper's Declaration</p> <p>Master Air Waybill</p>	<div>  <p>if applicable:</p>  </div> <div>  <p>Notoc entry required</p> </div>	<p><u>ACS only</u></p> <p>ACP/D booking required as PAX/CAO</p>

2015 Lithium Batteries Regulations




UN3480, Lithium Ion Batteries - Packing Instruction 965 Section II

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each cell must be</p> <ul style="list-style-type: none"> - protected against a short circuit - placed in inner packaging that completely enclose the cell/battery then placed in a strong rigid outer packaging (UN specification not required) <p>Strong outer packaging</p> <p>Maximum 8 cells per package</p>	1.2m drop tested	<p>The following statement is required on the waybill:</p> <p>“Lithium Ion Batteries in compliance with Section II of PI965”</p> <p>An accompanying document which states the following:</p> <p>" The package contains lithium ion cells or batteries. Handle with care as that a flammability hazard exists if the package is damaged. Special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary. A telephone number for additional information."</p>		<p><u>TDI</u></p> <p>account must be approved</p> <p><u>ACS</u></p> <p>ACP/LB booking mentioning Section II is required</p>

2015 Lithium Batteries Regulations






UN3480, Lithium Ion Batteries - Packing Instruction 965 Section II

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery must be</p> <ul style="list-style-type: none"> - protected against a short circuit - placed in inner packaging that completely enclose the cell/battery then placed in a strong rigid outer packaging (UN specification not required) <p>Strong outer packaging</p> <p>Maximum 2 batteries per package</p>	1.2m drop tested	<p>The following statement is required on the waybill:</p> <p>"Lithium Ion Batteries in compliance with Section II of PI965"</p> <p>An accompanying document which states the following:</p> <p>" The package contains lithium ion cells or batteries. Handle with care as that a flammability hazard exists if the package is damaged. Special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary. A telephone number for additional information."</p>		<p><u>TDI</u></p> <p>account must be approved</p> <p><u>ACS</u></p> <p>ACP/LB booking mentioning Section II is required</p>

2015 Lithium Batteries Regulations




UN3480, Lithium Ion Batteries - Packing Instruction 965 Section IB

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery/cell must be</p> <ul style="list-style-type: none"> - protected against a short circuit - placed in inner packaging that completely enclose the cell/battery then placed in a strong rigid outer packaging (no UN specification required) <p>Maximum 10 kg weight per package for PAX & CAO</p> <p>PAX = Passenger aircraft CAO = Cargo aircraft</p>	1.2m drop tested	<p>Shipper's Declaration</p> <p>The following statement is required on the AWB/MAWB:</p> <p>"Dangerous Goods as per attached DGD" or "Dangerous Goods as per attached Shipper's Declaration"</p> <p>An accompanying document stating the following:</p> <p>" The package contains lithium ion cells or batteries. Handle with care as that a flammability hazard exists if the package is damaged. Special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary. A telephone number for additional information."</p>	 	<p>TDI account must be approved</p> <p>ACS ACP/D booking required</p>
			 <p>Notoc entry required!</p>	

2015 Lithium Batteries Regulations






UN3481, Lithium Ion Batteries packed with equipment - Packing Instruction 966 Section II

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery/cell must be</p> <ul style="list-style-type: none">- protected against a short circuit- placed in inner packaging that completely enclose the cell/battery then placed in an outer packaging (UN specification not required) <p>Maximum number of Batteries: those necessary to power the equipment plus 2 spares</p> <p>Maximum 5 kg net qty of Lithium batteries or cells per package</p>	1.2m drop tested	<p>The following statement is required on the waybill:</p> <p>“Lithium Ion Batteries in compliance with Section II of PI966”</p> <p>An accompanying document which states the following:</p> <p>" The package contains lithium ion cells or batteries. Handle with care as that a flammability hazard exists if the package is damaged. Special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary. A telephone number for additional information."</p>		<p><u>TDI</u></p> <p>account must be approved</p> <p><u>ACS</u></p> <p>ACP/LB booking mentioning Section II is required</p>

2015 Lithium Batteries Regulations



UN3481, Lithium Ion Batteries packed with equipment - Packing Instruction 966 Section I

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery/cell must be</p> <ul style="list-style-type: none"> - protected against a short circuit - placed in inner packaging that completely enclose the cell/battery then placed in an outer packaging <p>UN specification packaging</p> <p>Max. 5 kg net qty (excl. equipment) for PAX shipments Max. 35 kg net qty (excl. equipment) for CAO shipments</p> <p>PAX = Passenger aircraft CAO = Cargo aircraft</p>	<p>Packing Group II performance standards for the package containing batteries</p>	<p>Shipper's Declaration</p> <p>Master Air Waybill</p>	<div>  <p>if applicable:</p>  </div> <div>  <p>Notoc entry required</p> </div>	<p><u>ACS only</u></p> <p>ACP/D booking required as PAX/CAO</p>

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UN3481, Lithium Ion Batteries contained in equipment - Packing Instruction 967 Section II


Packaging	Package Tests	Documentation	Labeling	DHL Product
The equipment must be packed in strong outer packaging constructed of suitable material of adequate strength and design in relation to the packaging's capacity and its intended use unless the cell or battery is afforded equivalent protection by the equipment in which it is contained.	No requirements			

Shipping to/from/within ASIA?

2015 Lithium Batteries Regulations






UN3481, Lithium Ion Batteries contained in equipment - Packing Instruction 967 Section II

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery/cell must be protected against short circuit and unintended movement. Devices containing batteries or cells must be protected against accidental activation.</p> <p>UN specification packaging is not required. Equipment with batteries must be placed in outer packaging of suitable construction and strength so as to provide adequate protection, unless the battery is afforded equivalent protection by the equipment in which it is contained.</p> <p>Max. 5 kg net quantity of Lithium-Ion cells/batteries per package (excluding equipment).</p>	<p>Strong package equivalent to its capacity and intended use</p>	<p>The following statement is required on the waybill:</p> <p>"Lithium Ion Batteries in compliance with Section II of PI967"</p> <p>An accompanying document which states the following:</p> <p>" The package contains lithium ion cells or batteries. Handle with care as that a flammability hazard exists if the package is damaged. Special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary. A telephone number for additional information."</p>		<p><u>TDI</u> account must be approved</p> <p><u>ACS</u> ACP/LB booking mentioning Section II is required</p>

2015 Lithium Batteries Regulations





UN3481, Lithium Ion Batteries contained in equipment - Packing Instruction 967 Section I

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery/cell must be protected against short circuit and unintended movement. Devices containing batteries or cells must be protected against accidental activation.</p> <p>UN specification packaging not required. Equipment with batteries must be placed in outer packaging of suitable construction and strength so as to provide adequate protection, unless the battery is afforded equivalent protection by the equipment in which it is contained.</p> <p>Max. 5 kg net (excl. equipment) for PAX shipments Max. 35 kg net (excl. equipment) for CAO shipments</p> <p>PAX = Passenger aircraft CAO = Cargo aircraft</p>	Strong package equivalent to its capacity and intended use	<p>Shipper's Declaration</p> <p>Master Air Waybill</p>	 <p>if applicable:</p> 	<p><u>ACS only</u></p> <p>ACP/D booking required as PAX/CAO</p>
			 Notoc entry required	

2015 Lithium Batteries Regulations



UN3090, Lithium Metal Batteries - Packing Instruction 968 Section II

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery/cell must be protected against a short circuit</p> <ul style="list-style-type: none"> - placed in inner packaging that completely enclose the cell/battery then placed in a strong rigid outer packaging (UN specification not required) <p>Maximum 2.5 kg net quantity per package</p> <p>Forbidden aboard passenger aircraft (PAX)</p> <p>CAO = Cargo aircraft</p>	<p>1.2m drop tested</p>	<p>The following statement is required on the waybill:</p> <p>“Lithium Metal Batteries in compliance with Section II of PI968” and “Cargo Aircraft Only”</p> <p>An accompanying document which states the following:</p> <p>" The package contains lithium metal cells or batteries. Handle with care as that a flammability hazard exists if the package is damaged. Special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary. A telephone number for additional information."</p>	 	<p>FORBIDDEN in DHL Express TDI Network</p> <p>ACS</p> <p>ACP/LB booking mentioning Section II is required as CAO</p> <p>FORBIDDEN into or from Asia Pacific as ACS</p>

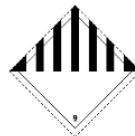


Packages and overpacks containing lithium batteries prepared in accordance with this section must be offered to the operator separately from the goods in the consolidation that are subject to these Regulations. Packages and overpacks in consolidations must not be loaded into a unit load device before offered to the operator.

Shipping to the US?

2015 Lithium Batteries Regulations



UN3090, Lithium Metal Batteries - Packing Instruction 968 Section IA



Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery/cell must be</p> <ul style="list-style-type: none"> - protected against a short circuit - placed in inner packaging that completely enclose the cell/battery then placed in an outer packaging <p>UN-packaging required</p> <p>Max. 35 kg net quantity for CAO shipments</p> <p>Forbidden aboard passenger aircraft (PAX)</p> <p>CAO = Cargo aircraft</p>	<p>Packing Group II performance standards</p>	<p>Shipper's Declaration</p> <p>Master Air Waybill</p> <p>"Cargo Aircraft Only"</p>	<div>   </div> <div>  </div>	<p><u>ACS only</u></p> <p>ACP/D booking required as CAO</p> <p>FORBIDDEN into or from Asia Pacific</p> <p>Notoc entry required</p>

Shipping to the US?

2015 Lithium Batteries Regulations



UN3090, Lithium Metal Batteries - Packing Instruction 968 Section II

Packaging	Package Tests	Documentation	Labelin g	DHL Product
<p>Each cell must be</p> <ul style="list-style-type: none"> - protected against a short circuit - placed in inner packaging that completely enclose the cell/battery then placed in a strong rigid outer packaging (UN specification not required) <p>Maximum 8 cells per package</p> <p>Forbidden aboard passenger aircraft (PAX) CAO = Cargo aircraft</p>	<p>1.2m drop tested</p>	<p>The following statement is required on the waybill:</p> <p>“Lithium Metal Batteries in compliance with Section II of PI968” and “Cargo Aircraft Only”</p> <p>An accompanying document which states the following:</p> <p>" The package contains lithium metal cells or batteries. Handle with care as that a flammability hazard exists if the package is damaged. Special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary. A telephone number for additional information."</p>	 	<p>FORBIDDEN in DHL Express TDI Network</p> <p>ACS ACP/LB booking mentioning Section II is required as CAO</p> <p>FORBIDDEN into or from Asia Pacific as ACS</p>

Packages and overpacks containing lithium batteries prepared in accordance with this section must be offered to the operator separately from the goods in the consolidation that are subject to these Regulations. Packages and overpacks in consolidations must not be loaded into a unit load device before offered to the operator.



Shipping to the US?



2015 Lithium Batteries Regulations



UN3090, Lithium Metal Batteries - Packing Instruction 968 Section II

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery must be</p> <ul style="list-style-type: none"> - protected against a short circuit - placed in inner packaging that completely enclose the cell/battery then placed in a strong rigid outer packaging (UN specification not required) <p>Maximum 2 batteries per package</p> <p>Forbidden aboard passenger aircraft (PAX) CAO = Cargo aircraft</p>	<p>1.2m drop tested</p>	<p>The following statement is required on the waybill:</p> <p>“Lithium Metal Batteries in compliance with Section II of PI968” and “Cargo Aircraft Only”</p> <p>An accompanying document which states the following:</p> <p>" The package contains lithium metal cells or batteries. Handle with care as that a flammability hazard exists if the package is damaged. Special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary. A telephone number for additional information."</p>	 	<p>FORBIDDEN in DHL Express TDI Network</p> <p>ACS ACP/LB booking mentioning Section II is required as CAO</p> <p>FORBIDDEN into or from Asia Pacific as ACS</p>

Packages and overpacks containing lithium batteries prepared in accordance with this section must be offered to the operator separately from the goods in the consolidation that are subject to these Regulations. Packages and overpacks in consolidations must not be loaded into a unit load device before offered to the operator.





Shipping to the US?



2015 Lithium Batteries Regulations



UN3090, Lithium Metal Batteries - Packing Instruction 968 Section IB


Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery/cell must be</p> <ul style="list-style-type: none"> - protected against a short circuit - placed in inner packaging that completely enclose the cell/battery then placed in a strong rigid outer packaging (no UN specification required) <p>Maximum 2.5 kg weight per package</p> <p>Forbidden aboard passenger aircraft (PAX)</p> <p>CAO = Cargo aircraft</p>	1.2m drop tested	<p>Shipper's Declaration</p> <p>The following statement is required on the AWB/MAWB:</p> <p>"Dangerous Goods as per attached DGD" or "Dangerous Goods as per attached Shipper's Declaration"</p> <p>"Cargo Aircraft Only"</p> <p>An accompanying document stating the following:</p> <p>" The package contains lithium metal cells or batteries. Handle with care as that a flammability hazard exists if the package is damaged. Special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary. A telephone number for additional information."</p>	  	<p>TDI account must be approved</p> <p>ACS ACP/D booking required</p> <p>Only as CAO</p> <p>FORBIDDEN into or from Asia Pacific as ACS</p>
				Notoc entry required

Shipping to the US?

2015 Lithium Batteries Regulations



UN3091, Lithium Metal Batteries packed with equipment - Packing Instruction 969 Section II




Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery/cell must be</p> <ul style="list-style-type: none"> - protected against a short circuit - placed in inner packaging that completely enclose the cell/battery then placed in an outer packaging (UN specification not required) <p>Maximum number of batteries: those necessary to power the equipment plus 2 spares</p> <p>Max. 5 kg net qty of Li.-metal cells/ batt. per package (excl. equipment)</p>	1.2m drop tested	<p>The following statement is required on the waybill:</p> <p>“Lithium Metal Batteries in compliance with Section II of PI969”</p> <p>An accompanying document which states the following:</p> <p>" The package contains lithium metal cells or batteries. Handle with care as that a flammability hazard exists if the package is damaged. Special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary. A telephone number for additional information."</p>		<p><u>TDI</u></p> <p>account must be approved</p> <p><u>ACS</u></p> <p>ACP/LB booking mentioning Section II is required</p>

Shipping to the US?

2015 Lithium Batteries Regulations



UN3091, Lithium Metal Batteries packed with equipment - Packing Instruction 969 Section I

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery/cell must be</p> <ul style="list-style-type: none"> - protected against a short circuit - placed in inner packaging that completely enclose the cell/battery then placed in an outer packaging <p>If shipped as PAX:</p> <ul style="list-style-type: none"> - Batteries/cells must be packed in either a rigid metal intermediate or a metal outer packaging - Batteries/cells must be surrounded by cushioning material that is non-combustible / non-conductive UN-packaging required <p>Max. 5 kg net (excl. equipment) for PAX shipments (PAX = Passenger aircraft) Max. 35 kg net (excl. equipment) for CAO shipments (CAO = Cargo aircraft)</p>	<p>Packing Group II performance standards for the package containing batteries</p>	<p>Shipper's Declaration</p> <p>Master Air Waybill</p>	<div>  </div> <p>if applicable:</p> <div>  </div>	<p><u>ACS only</u></p> <p>ACP/D booking required as PAX/CAO</p>
			 Notoc entry required	

Shipping to the US?

2015 Lithium Batteries Regulations



UN3091, Lithium Metal Batteries contained in equipment - Packing Instruction 970 Section II


Packaging	Package Tests	Documentation	Labeling	DHL Product
The equipment must be packed in strong outer packaging constructed of suitable material of adequate strength and design in relation to the packaging's capacity and its intended use unless the cell or battery is afforded equivalent protection by the equipment in which it is contained.	No requirements			

Shipping to/from/within ASIA?

2015 Lithium Batteries Regulations



UN3091, Lithium Metal Batteries contained in equipment - Packing Instruction 970 Section II




Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery/cell must be protected against short circuit, any devices containing batteries or cells must be protected against accidental activation.</p> <p>UN specification packaging is not required. Equipment with batteries must be placed in outer packaging of suitable construction and strength so as to provide adequate protection, unless the battery is afforded equivalent protection by the equipment in which it is contained.</p> <p>Max. 5 kg net quantity of Lithium metal cells/batteries per package (excluding equipment)</p>	<p>Strong package equivalent to its capacity and intended use</p>	<p>The following statement is required on the waybill:</p> <p>"Lithium Metal Batteries in compliance with Section II of PI970"</p> <p>An accompanying document which states the following:</p> <p>" The package contains lithium metal cells or batteries. Handle with care as that a flammability hazard exists if the package is damaged. Special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary. A telephone number for additional information."</p>		<p><u>TDI</u> account must be approved</p> <p><u>ACS</u> ACP/LB booking mentioning Section II is required</p>

Shipping to the US?

2015 Lithium Batteries Regulations



UN3091, Lithium Metal Batteries contained in equipment - Packing Instruction 970 Section I

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery/cell must be protected against short circuit, any devices containing batteries or cells must be protected against accidental activation.</p> <p>UN specification packaging is not required. Equipment with batteries must be placed in outer packaging of suitable construction and strength so as to provide adequate protection, unless the battery is afforded equivalent protection by the equipment in which it is contained.</p> <p>The quantity of lithium metal contained in any piece of equipment must not exceed 500 g per battery and 12 g per cell.</p> <p>Max. 5 kg net (excl. equipment) for PAX shipments Max. 35 kg net (excl. equipment) for CAO shipments</p> <p>PAX = Passenger aircraft CAO = Cargo aircraft</p>	Strong package equivalent to its capacity and intended use	<p>Shipper's Declaration</p> <p>Master Air Waybill</p>	 <p>if applicable:</p> 	<p><u>ACS only</u></p> <p>ACP/D booking required as PAX/CAO</p>
			 <p>Notoc entry required</p>	

Shipping to the US?





Additional requirements as per USG-02

Primary (non-rechargeable) lithium metal batteries and cells (UN 3090) are forbidden for transportation aboard passenger-carrying aircraft.

Such batteries transported in accordance with Section II of Packing Instruction 968 must be marked

**PRIMARY LITHIUM BATTERIES --
FORBIDDEN FOR TRANSPORT
ABOARD PASSENGER AIRCRAFT**

or

**LITHIUM METAL BATTERIES --
FORBIDDEN FOR TRANSPORT
ABOARD PASSENGER AIRCRAFT**

Such batteries transported in accordance with Section IA and IB of Packing Instruction 968 must be labeled with the CARGO AIRCRAFT ONLY label.





Additional requirements as per USG-02

Primary (non-rechargeable) lithium metal batteries and cells **contained in or packed with equipment** (UN 3091) are forbidden for transportation aboard passenger-carrying aircraft unless:

- 1) the package contains no more than the number of lithium metal batteries or cells necessary to power the intended piece of equipment
- 2) the lithium content of each cell, when fully charged, is not more than 5 grams
- 3) the aggregate lithium content of the anode of each battery, when fully charged, is not more than 25 grams
- 4) the net weight of lithium batteries does not exceed 5 kg (11 lb)

Primary (non-rechargeable) lithium metal batteries and cells contained in or packed with equipment (UN 3091) and transported in accordance with **Section I of Packing Instruction 969 or 970** that do not conform to the above provisions are forbidden for transportation aboard passenger-carrying aircraft and must be labeled with the **CARGO AIRCRAFT ONLY** label.



Primary (non-rechargeable) lithium metal batteries and cells contained in or packed with equipment (UN 3091) and transported in accordance with **Section II of Packing Instruction 969 or 970** that do not conform to the above provisions are forbidden for transportation aboard passenger-carrying aircraft and must be marked

**PRIMARY LITHIUM BATTERIES --
FORBIDDEN FOR TRANSPORT
ABOARD PASSENGER AIRCRAFT**

or

**LITHIUM METAL BATTERIES --
FORBIDDEN FOR TRANSPORT
ABOARD PASSENGER AIRCRAFT**

Additional requirements (in excess of standard IATA DGR) for major carriers / airlines operating in ASIA



Several major carriers / airlines in Asia Pacific have imposed additional, stricter requirements in excess of the IATA DG Regulations, applicable to

PI967 or PI970 with 4 cells/ 2 batteries or less contained in the device.

Whereas these quantities are exempted from labelling (Lithium battery label) or any applicable marking in the rest of the world, it is mandatory that for any such commodity to, from, or within Asia Pacific the description on the DHL Express Air Waybill includes the wording:

“Lithium ion batteries in compliance with Section II of PI967 (4 cells/2 batteries or less)”

or, as appropriate:

“Lithium metal batteries in compliance with Section II of PI970 (4 cells/2 batteries or less)”

Shippers must make all relevant supporting documents (i.e. UN38.3 test report, MSDS, etc.) available to individual carrier upon request. Individual carrier reserves the right to request and review any related supporting document of the shipment. (Reference: Hong Kong Association of Freight Forwarding & Logistics LTD.)

In addition to the above, loose/bulk lithium metal batteries UN3090 (PI968) are forbidden from/to/within Asia.



2015 Lithium Batteries Regulations

Important Disclaimer:

Please note that the information contained in this Guide is purely illustrative and does not replace the study of the Dangerous Goods Regulations to perform any tasks related to the preparation of shipments containing Lithium Batteries.

DHL does not warrant the accuracy or completeness of the content. DHL will not be held responsible for any inaccuracy, error or omission, regardless of cause.