

LITHIUM BATTERIES GUIDANCE

IN ACCORDANCE WITH THE

IATA DANGEROUS GOODS REGULATIONS 57TH EDITION 2016

Defective / Damaged Batteries



DHL will **NOT** accept any shipments 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 whichever quantities*).

DHL will **NOT** accept any batteries that have been recalled by the battery supplier/manufacturer nor any waste batteries meant for recycling or disposal purposes (regardless of 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.

2016 Lithium Batteries Regulations: Transport Document

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 IB 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 <input type="checkbox"/> UN3091 Lithium Metal Batteries in compliance with Section IB 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"
Road / IMDG	
<p>* Lithium Metal Batteries in compliance with Section II of PI968 are FORBIDDEN in DHL TDI Express Network</p> <p>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.</p> <p>Warning: Lithium batteries that have been recalled by the manufacturer for safety reasons are forbidden for air transport.</p> <p>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.</p>	

Click on the document to enlarge

Lithium battery shipments pertaining to Section IB of PI965 / PI968, and all Section II shipments requiring a lithium battery handling label must be accompanied by a

→ **Transport Document.**

Please be aware that for shipments

→ **to, within or from Asia**

additional relevant supporting documents may need to be presented. Please contact your local DHL Customer Service Representative for more details.

2016 Lithium Batteries Regulations: Battery Types

Step 1 – What type of battery are you shipping?

Lithium Metal Batteries or cells



Non-rechargeable (primary) lithium metal or lithium alloy cells or batteries

Longer life than standard alkaline batteries / cells, and commonly used in cameras, smoke detectors, etc.

Lithium Ion Batteries or cells



Rechargeable (secondary) lithium ion or lithium polymer cells or batteries.

Very commonly found in portable consumer electronics such as laptops, mobile phones, MP3 players, camcorders, cordless power tools, etc. .

2016 Lithium Batteries Regulations: Lithium Ion Batteries



Step 2 – How are you shipping them?

Batteries / cells only



Batteries / cells
packed with
equipment
(separately in the
same package)



Batteries / cells
contained in
equipment



2016 Lithium Batteries Regulations: Lithium Metal Batteries



Step 2 – How are you shipping them?

Batteries / cells only



Batteries / cells
packed with
equipment
(separately in the
same package)



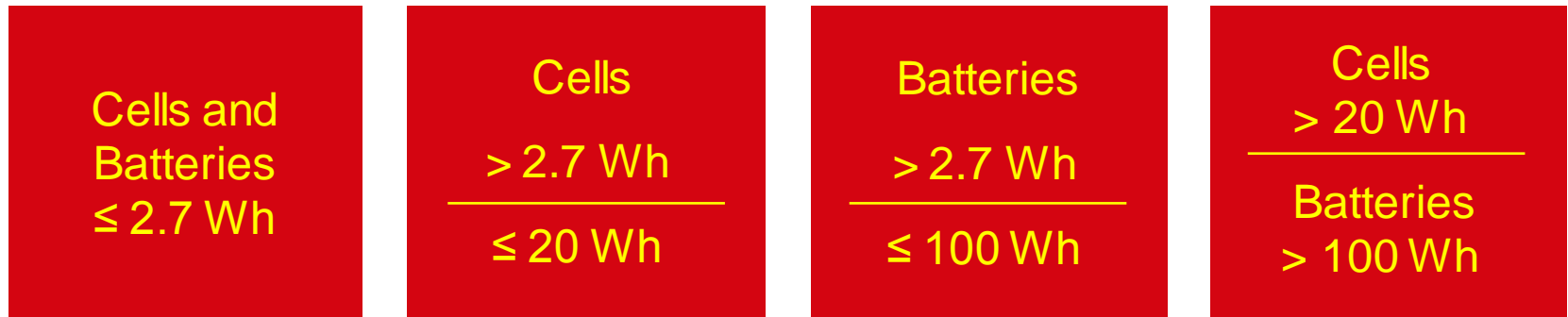
Batteries / cells
contained in
equipment



2016 Lithium Batteries Regulations: Watt Hours



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



If shipped without equipment, cells and/or batteries of these three types must not be combined in the same package!

Cell → a single electrochemical unit

Battery → a number of cells electrically connected to each other and packed together in a common housing

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

2016 Lithium Batteries Regulations: Lithium Content



Step 3 – How much lithium does your battery / cell contain?



If shipped without equipment, cells and/or batteries of these three types must not be combined in the same package!

Cell → a single electrochemical unit
Battery → a number of cells electrically connected to each other and packed together in a common housing

2016 Lithium Batteries Regulations: Lithium Ion Batteries



Step 4 – How many cells does your package contain in total?

≤ 8 Cells

> 8 Cells

Please note:

Do not confuse package with overpack. The above refers to the number of cells or batteries per individual package regardless of whether the package is contained in an overpack.

2016 Lithium Batteries Regulations: Lithium Ion Batteries



Step 4 – How many batteries does your package contain in total?

≤ 2 Batteries

> 2 Batteries

Please note:

Do not confuse package with overpack. The above refers to the number of cells or batteries per individual package regardless of whether the package is contained in an overpack.

2016 Lithium Batteries Regulations: Lithium Metal Batteries



Step 4 – How many cells does your package contain in total?

≤ 8 Cells

> 8 Cells

Please note:

Do not confuse package with overpack. The above refers to the number of cells or batteries per individual package regardless of whether the package is contained in an overpack.

2016 Lithium Batteries Regulations: Lithium Metal Batteries



Step 4 – How many batteries does your package contain in total?

≤ 2 Batteries

> 2 Batteries

Please note:

Do not confuse package with overpack. The above refers to the number of cells or batteries per individual package regardless of whether the package is contained in an overpack.

2016 Lithium Batteries Regulations: Watt Hour Rating



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
 $> 100 \text{ Wh}$

*The Watt Hours must be indicated 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).

→ **Cell**
a single encased electrochemical unit

→ **Battery**
a number of cells electrically connected to each other and packed together in a common housing

2016 Lithium Batteries Regulations: Watt Hour Rating



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
 $> 100 \text{ Wh}$

*The Watt Hours must be indicated 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).

→ **Cell**
a single encased electrochemical unit

→ **Battery**
a number of cells electrically connected to each other and packed together in a common housing

2016 Lithium Batteries Regulations: Lithium Content



Step 3 – How much lithium does your battery / cell contain?

Cells
 $\leq 1 \text{ g}$
or Batteries
 $\leq 2 \text{ g}$

Cells
 $> 1 \text{ g}$
or Batteries
 $> 2 \text{ g}$

2016 Lithium Batteries Regulations: Lithium Content



Step 3 – How much lithium does your battery / cell contain?

Cells
 ≤ 1 g
or Batteries
 ≤ 2 g

Cells
 > 1 g
or Batteries
 > 2 g

2016 Lithium Batteries Regulations: Lithium Ion Batteries



Step 4 – How many cells or batteries does your package contain in total?

≤ 4 Cells
or
 ≤ 2 Batteries

> 4 Cells
or
 > 2 Batteries

Please note:

Do not confuse package with overpack. The above refers to the number of cells or batteries per individual package regardless of whether the package is contained in an overpack.

2016 Lithium Batteries Regulations: Lithium Metal Batteries



Step 4 – How many cells or batteries does your package contain in total?

≤ 4 Cells
or
 ≤ 2 Batteries



> 4 Cells
or
 > 2 Batteries

Please note:

Do not confuse package with overpack. The above refers to the number of cells or batteries per individual package regardless of whether the package is contained in an overpack.

UN3480, Lithium Ion Batteries / Cells – PI965 Section II






Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging.</p> <p>UN specification is not required</p> <p>Maximum 2.5 kg net quantity per package</p>	1.2 m drop test	<p><i>The following statement is required on the air waybill:</i></p> <p>“Lithium Ion Batteries in compliance with Section II of PI965”</p> <p><i>Each consignment must be accompanied with a document with an indication that:</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> the package contains lithium ion cells or batteries; <input type="checkbox"/> the package must be handled with care and that a flammability hazard exists if the package is damaged; <input type="checkbox"/> special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary; and <input type="checkbox"/> a telephone number for additional information. 		<p><u>TDI Express</u></p> <p>account must be approved</p>  <p><u>ACS</u></p> <p>Select “LB” and mention “Section II” in the commodity tab</p>



Limited service in TDI Express to, from, within the Asia Pacific region due to air carriers restrictions. For additional information please contact your local DHL representative.

UN3480, Lithium Ion Batteries / Cells – PI965 Section IA





Packaging	Package Tests	Documentation	Labeling	DHL Product Available
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging</p> <p><i>Max. net quantity per package:</i></p> <p>5 kg on Passenger and Cargo Aircraft (PAX) 35 kg for Cargo Aircraft Only (CAO)</p>	<p>Packing Group II performance standards</p> <p>(UN specification packaging)</p>	<p>Shipper's Declaration</p> <p>Air Waybill</p>	 <p>where applicable:</p> 	<p><u>TDI Express</u></p>  <p><u>ACS</u></p> <p>requires booking as ACP/D + PAX or CAO</p>



Lithium ion batteries / cells packed according to PI965 Section IA are not accepted in DHL TDI Express when shipped via road to, from, or transiting an ADR member state.

UN3480, Lithium Ion Batteries / Cells – PI965 Section II





Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging</p> <p>UN specification is not required</p> <p>Maximum 8 cells per package</p>	1.2 m drop test	<p><i>The following statement is required on the air waybill:</i></p> <p>“Lithium Ion Batteries in compliance with Section II of PI965”</p> <p><i>Each consignment must be accompanied with a document with an indication that:</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> the package contains lithium ion cells or batteries; <input type="checkbox"/> the package must be handled with care and that a flammability hazard exists if the package is damaged; <input type="checkbox"/> special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary; and <input type="checkbox"/> a telephone number for additional information. 		<p><u>TDI Express</u></p> <p>account must be approved</p>  <p><u>ACS</u></p> <p>Select “LB” and mention “Section II” in the commodity tab</p>



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UN3480, Lithium Ion Batteries / Cells – PI965 Section II





Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging</p> <p>UN specification is not required</p> <p>Maximum 2 batteries per package</p>	1.2 m drop test	<p><i>The following statement is required on the air waybill:</i></p> <p>“Lithium Ion Batteries in compliance with Section II of PI965”</p> <p><i>Each consignment must be accompanied with a document with an indication that:</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> the package contains lithium ion cells or batteries; <input type="checkbox"/> the package must be handled with care and that a flammability hazard exists if the package is damaged; <input type="checkbox"/> special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary; and <input type="checkbox"/> a telephone number for additional information. 		<p><u>TDI Express</u></p> <p>account must be approved</p>  <p><u>ACS</u></p> <p>Select “LB” and mention “Section II” in the commodity tab</p>



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UN3480, Lithium Ion Batteries / Cells – PI965 Section IB



Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging</p> <p><i>UN specification is not required</i></p> <p>Maximum 10 kg net weight per package for either „Passenger and Cargo Aircraft” or „Cargo Aircraft Only” shipments</p>	<p>1.2 m drop test</p>	<p>Shipper's Declaration</p> <p><i>The following statement is required on the AWB:</i></p> <p>“Dangerous Goods as per attached DGD” or “Dangerous Goods as per attached Shipper's Declaration”</p> <p><i>Each consignment must be accompanied with a document with an indication that:</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> the package contains lithium ion cells or batteries; <input type="checkbox"/> the package must be handled with care and that a flammability hazard exists if the package is damaged; <input type="checkbox"/> special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary; and <input type="checkbox"/> a telephone number for additional information. 	 	<p><u>TDI Express</u></p> <p>account must be approved</p> <p><u>ACS</u></p> <p>Select ”D” or for US only “DG” and add a description in the commodity tab</p>




UN3481, Lithium Ion Batteries / Cells – PI966 Section II



Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging</p> <p>The equipment must be secured against any movement within the outer packaging and must be equipped with an effective means of preventing accidental activation.</p> <p><i>Maximum number of batteries /cells per package:</i></p> <p><u>Those necessary to power the equipment plus 2 spares</u></p> <p><i>Maximum net quantity of lithium batteries or cells per package = 5 kg</i> per package for either „Passenger and Cargo Aircraft” or „Cargo Aircraft Only “shipments</p>	1.2 m drop test	<p><i>The following statement is required on the air waybill:</i></p> <p>“Lithium Ion Batteries in compliance with Section II of PI966”</p> <p><i>Each consignment must be accompanied with a document with an indication that:</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> the package contains lithium ion cells or batteries; <input type="checkbox"/> the package must be handled with care and that a flammability hazard exists if the package is damaged; <input type="checkbox"/> special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary; and <input type="checkbox"/> a telephone number for additional information. 		<p><u>TDI Express</u></p> <p>account must be approved</p> <p><u>ACS</u></p> <p>Select “LB” and mention “Section II” in the commodity tab</p>

UN3481, Lithium Ion Batteries / Cells – PI966 Section I



Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging</p> <p>The equipment must be secured against any movement within the outer packaging and must be equipped with an effective means of preventing accidental activation.</p> <p><i>Maximum number of batteries:</i> <u>Those necessary to power the equipment plus 2 spares</u></p> <p><i>Max. net quantity per package (exclusive of equipment):</i> 5 kg on Passenger and Cargo Aircraft (PAX) 35 kg for Cargo Aircraft Only shipments (CAO)</p>	<p>Packing Group II performance standards</p> <p>(UN specification packaging)</p> <p><i>for those packages containing batteries</i></p>	<p>Shipper's Declaration</p> <p>Air Waybill</p>	 <p>where applicable:</p> 	<p><u>TDI Express</u></p>  <p><u>ACS</u></p> <p>requires booking as ACP/D + PAX or CAO</p>



Lithium ion batteries / cells packed according to PI966 Section I are not accepted in DHL TDI Express when shipped via road to, from, or transiting an ADR member state.

UN3481, Lithium Ion Batteries / Cells – PI967 Section II



Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>The equipment must be packed in strong rigid 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.</p> <p>Max. 5 kg net qty of Lithium-Ion cells/ batteries per package (excl. of equipment).</p>	No requirements			



“Lithium ion batteries in compliance with Section II of PI967 less than 2 batteries or 4 cells” must be added on the waybill for all shipments to, from, within the Asia Pacific region.

Important:


For shipments meeting above conditions, there is the requirement that the consignment is limited to a maximum of 2 packages (each containing maximum 4 cells or 2 batteries contained in equipment).

If the shipment exceeds 2 packages, the application of the lithium battery handling label (and the subsequent requirements) apply.

This limitation of 2 packages per consignment enters only in force as of 1st of January 2017, since the regulations foresee a 12 month transitional period, however, shippers are recommended to implement it as soon as possible.




UN3481, Lithium Ion Batteries / Cells – PI967 Section II



Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging</p> <p>UN specification packaging is not required. Devices with batteries must be placed in an 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 qty of Lithium-Ion cells/ batteries per package (excl. of equipment). for either „Passenger and Cargo Aircraft” or „Cargo Aircraft Only “shipments</p>	<p>Strong rigid outer packaging equivalent to its capacity and intended use</p>	<p><i>The following statement is required on the air waybill:</i></p> <p>“Lithium Ion Batteries in compliance with Section II of PI967”</p> <p><i>Each consignment must be accompanied with a document with an indication that:</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> the package contains lithium ion cells or batteries; <input type="checkbox"/> the package must be handled with care and that a flammability hazard exists if the package is damaged; <input type="checkbox"/> special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary; and <input type="checkbox"/> a telephone number for additional information. 		<p><u>TDI Express</u></p> <p>account must be approved</p> <p><u>ACS</u></p> <p>Select “LB” and mention “Section II” in the commodity tab</p>

UN3481, Lithium Ion Batteries / Cells – PI967 Section I






Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging</p> <p>UN specification packaging is not required. Devices 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><i>Max. net quantity per package (exclusive of equipment):</i></p> <p>5 kg on Passenger and Cargo Aircraft (PAX) 35 kg for Cargo Aircraft Only (CAO)</p>	Strong rigid outer packaging equivalent to its capacity and intended use	Shipper's Declaration Air Waybill	 <p>where applicable:</p> 	<p><u>TDI Express</u></p>  <p><u>ACS</u></p> <p>requires booking as ACP/D + PAX or CAO</p>




Lithium ion batteries / cells packed according to PI967 Section I are not accepted in TDI Express when shipped via road to, from, or transiting an ADR member state.

UN3090, Lithium Metal Batteries / Cells – PI968 Section II



Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging</p> <p>UN specification not required</p> <p>Maximum net quantity per package: 2,5 kg</p> <p><u>Cargo Aircraft Only!</u></p>	<p>1.2 m drop test</p>	<p><i>The following words are required on the AWB:</i></p> <ul style="list-style-type: none"> - “Lithium Metal Batteries in compliance with Section II of PI968” - „Cargo Aircraft Only“ or „CAO“ <p><i>Each consignment must be accompanied with a document with an indication that:</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> the package contains lithium metal cells or batteries; <input type="checkbox"/> the package must be handled with care and that a flammability hazard exists if the package is damaged; <input type="checkbox"/> special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary; and <input type="checkbox"/> a telephone number for additional information. 	 	<p><u>TDI Express</u></p> <p>Forbidden</p> <p><u>ACS only</u></p> <p>Select “LB” and mention “Section II” in the commodity tab</p> 




 **Shipping ACS consignments to, from or within the Asia Pacific region is possible for RCG approved shipments on approved routings only.**

Important:

If part of a consolidation, packages and/or overpacks containing batteries assigned to this section must be offered to DHL separately from the goods in the consolidation that are not subject to the ICAO / IATA DGR. Furthermore, these batteries will not be accepted if tendered in a customer pre-built ULD.

UN3090, Lithium Metal Batteries / Cells – PI968 Section IA



Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging</p> <p>Max. net quantity per package: 35 kg</p> <p><u>Cargo Aircraft Only</u></p>	<p>Packing Group II performance standards</p> <p>(UN specification packaging)</p>	<p>Shipper's Declaration</p> <p>Air Waybill</p>	 	<p><u>TDI Express</u></p>  <p><u>ACS</u></p> <p>requires booking as ACP/D + CAO</p>




Lithium ion batteries / cells packed according to PI968 Section IA are not accepted in DHL TDI Express when shipped via road to, from, or transiting an ADR member state.



Shipping ACS consignments to, from or within the Asia Pacific region is possible for RCG approved shipments on approved routings only.

UN3090, Lithium Metal Batteries / Cells – PI968 Section II



Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging</p> <p>UN specification not required</p> <p>Maximum 8 cells per package</p> <p><u>Cargo Aircraft Only</u></p>	<p>1.2 m drop test</p>	<p><i>The following words are required on the AWB:</i></p> <ul style="list-style-type: none"> - “Lithium Metal Batteries in compliance with Section II of PI968” - „Cargo Aircraft Only“ or „CAO“ <p><i>Each consignment must be accompanied with a document with an indication that:</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> the package contains lithium metal cells or batteries; <input type="checkbox"/> the package must be handled with care and that a flammability hazard exists if the package is damaged; <input type="checkbox"/> special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary; and <input type="checkbox"/> a telephone number for additional information. 	 	<p><u>TDI Express</u></p> <p>Forbidden</p> <p><u>ACS only</u></p> <p>Select “LB” and mention “Section II” in the commodity tab</p> 






Shipping ACS consignments to, from or within the Asia Pacific region is possible for RCG approved shipments on approved routings only.

Important:

If part of a consolidation, packages and/or overpacks containing batteries assigned to this section must be offered to DHL separately from the goods in the consolidation that are not subject to the ICAO / IATA DGR. Furthermore, these batteries will not be accepted if tendered in a customer pre-built ULD.

UN3090, Lithium Metal Batteries / Cells – PI968 Section II



Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging</p> <p>UN specification not required</p> <p>Maximum 2 batteries per package</p> <p><u>Cargo Aircraft Only</u></p>	<p>1.2 m drop test</p>	<p><i>The following words are required on the AWB:</i></p> <ul style="list-style-type: none"> - “Lithium Metal Batteries in compliance with Section II of PI968” - „Cargo Aircraft Only“ or „CAO“ <p><i>Each consignment must be accompanied with a document with an indication that:</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> the package contains lithium metal cells or batteries; <input type="checkbox"/> the package must be handled with care and that a flammability hazard exists if the package is damaged; <input type="checkbox"/> special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary; and <input type="checkbox"/> a telephone number for additional information. 	 	<p><u>TDI Express</u></p> <p>Forbidden</p> <p><u>ACS only</u></p> <p>Select “LB” and mention “Section II” in the commodity tab</p> 







Shipping ACS consignments to, from or within the Asia Pacific region is possible for RCG approved shipments on approved routings only.

Important:

If part of a consolidation, packages and/or overpacks containing batteries assigned to this section must be offered to DHL separately from the goods in the consolidation that are not subject to the ICAO / IATA DGR. Furthermore, these batteries will not be accepted if tendered in a customer pre-built ULD.

UN3090, Lithium Metal Batteries / Cells – PI968 Section IB



Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging</p> <p>UN specification not required</p> <p>Max. net weight per package: 2,5 kg</p> <p><u>Cargo Aircraft Only!</u></p>	1.2 m drop test	<p>Shipper's Declaration Air Waybill</p> <p><i>In addition to the Shipper's Declaration, each consignment must be accompanied with a document with an indication that:</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> the package contains lithium metal cells or batteries; <input type="checkbox"/> the package must be handled with care and that a flammability hazard exists if the package is damaged; <input type="checkbox"/> special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary; and <input type="checkbox"/> a telephone number for additional information. 	  	<p><u>TDI Express</u> account must be approved</p> <p><u>ACS</u>  Select "D" or for US only "DG" and add a description in the commodity tab</p>




Forbidden in TDI Express to, from, within the Asia Pacific region due to air carrier restriction

Shipping ACS consignments to, from or within the Asia Pacific region is possible for RCG approved shipments on approved routings only.




UN3091, Lithium Metal Batteries / Cells – PI969 Section II



Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging</p> <p>Equipment must be secured against movement within the outer packaging, and against accidental activation</p> <p><i>Maximum number of batteries per package:</i> <u>Those necessary to power the equipment plus 2 spares</u></p> <p><i>Max. net quantity of Lithium metal cells or -batteries per package (exclusive of equipment):</i> 5 kg</p>	1.2 m drop test	<p><i>The following statement is required on the air waybill:</i></p> <p>“Lithium Metal Batteries in compliance with Section II of PI969”</p> <p><i>Each consignment must be accompanied with a document with an indication that:</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> the package contains lithium metal cells or batteries; <input type="checkbox"/> the package must be handled with care and that a flammability hazard exists if the package is damaged; <input type="checkbox"/> special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary; and <input type="checkbox"/> a telephone number for additional information. 		<p><u>TDI Express</u></p> <p>account must be approved</p> <p><u>ACS</u></p> <p>Select “LB” and mention “Section II” in the commodity tab</p>

UN3091, Lithium Metal Batteries / Cells – PI969 Section I



Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging</p> <p>Equipment must be secured against movement within the outer packaging, and also against accidental activation</p> <p><i>If prepared for transport on Passenger Aircraft :</i></p> <ul style="list-style-type: none"> - Each battery /cell must be packed in either a rigid metal intermediate or a metal outer packaging - Each battery /cell must be surrounded by cushioning material that is non-combustible / non-conductive <p><i>Max. net quantity per package (exclusive of equipment):</i></p> <p>5 kg on Passenger and Cargo Aircraft (PAX) 35 kg for Cargo Aircraft Only shipments (CAO)</p>	<p>Packing Group II performance standards</p> <p><i>UN specification packaging required for those packages containing batteries</i></p>	<p>Shipper's Declaration</p> <p>Air Waybill</p>	 <p>where applicable:</p> 	<p><u>TDI Express</u></p>  <p><u>ACS</u></p> <p>requires booking as ACP/D + PAX or CAO</p>



Lithium ion batteries / cells packed according to PI969 Section I are not accepted in TDI Express when shipped via road to, from, or transiting an ADR member state.

UN3091, Lithium Metal Batteries / Cells – PI970 Section II



Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>The equipment must be packed in strong rigid 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.</p> <p>Max. 5 kg net qty of Lithium-Ion cells/ batteries per package (excl. of equipment).</p>	Exempt from any marking and labeling requirements			



“Lithium metal batteries in compliance with Section II of PI970 less than 2 batteries or 4 cells” must be added on the waybill for all shipments to, from, within the Asia Pacific region.

Important:


For shipments meeting above conditions, there is the requirement that the consignment is limited to a maximum of 2 packages (each containing maximum 4 cells or 2 batteries contained in equipment).

If the shipment exceeds 2 packages, the application of the lithium battery handling label (and the subsequent requirements) apply.

This limitation of 2 packages per consignment enters only in force as of 1st of January 2017, since the regulations foresee a 12 month transitional period, however, shippers are recommended to implement it as soon as possible.




UN3091, Lithium Metal Batteries / Cells – PI970 Section II



Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging</p> <p>UN specification packaging are 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><i>Max. net quantity of Lithium metal batteries/ cells per package = 5 kg (excl. of equipment) for either „Passenger and Cargo Aircraft“ or „Cargo Aircraft Only“ shipments</i></p>	<p>Strong outer packaging equivalent to its capacity and intended use</p>	<p><i>The following statement is required on the air waybill:</i></p> <p>“Lithium Metal Batteries in compliance with Section II of PI970”</p> <p><i>Each consignment must be accompanied with a document with an indication that:</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> the package contains lithium metal cells or batteries; <input type="checkbox"/> the package must be handled with care and that a flammability hazard exists if the package is damaged; <input type="checkbox"/> special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary; and <input type="checkbox"/> a telephone number for additional information. 		<p><u>TDI Express</u></p> <p>account must be approved</p> <p><u>ACS</u></p> <p>Select “LB” and mention “Section II” in the commodity tab</p>

UN3091, Lithium Metal Batteries / Cells – PI970 Section I



Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each battery /cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery /cell, then placed in a strong rigid outer packaging</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><i>Max. net quantity per package (exclusive of equipment):</i></p> <p>5 kg on Passenger and Cargo Aircraft 35 kg for Cargo Aircraft Only shipments</p>	<p>Strong outer packaging equivalent to its capacity and intended use</p>	<p>Shipper's Declaration</p> <p>Air Waybill</p>	 <p>where applicable:</p> 	<p><u>TDI Express</u></p>  <p><u>ACS</u></p> <p>requires booking as ACP/D + PAX or CAO</p>



Lithium ion batteries / cells packed according to PI970 Section I are not accepted in TDI Express when shipped via road to, from, or transiting an ADR member state.



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.