

# LITHIUM BATTERIES UPDATED ACCORDING TO THE IATA DGR 54th EDITION

DHL – Restricted Commodities Group



## 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*), recalled by the battery supplier/manufacturer and 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 in DHL.

# 2013 LITHIUM BATTERIES REGULATIONS

An accompanying “**Transport Document**” is required for all shipments containing lithium batteries in Section IB and most of Section II.

See the document under the following link:

**Transport Document**

Lithium battery shipments must be accompanied by a **Material Safety Data Sheet** if shipped to/within/from Asia.

Transport Document for Lithium Batteries in Section IB and II

Air Waybill / HAWB:	
Shipper:	Consignee:

WARNING: LITHIUM BATTERIES THAT HAVE BEEN RECALLED BY THE MANUFACTURER FOR SAFETY REASONS MUST NOT BE SHIPPED BY AIR.

Terminology:

- Cell – electrochemical unit, consisting of an anode and a cathode, capable of generating electrical current
- Battery – assembly of cells
- Lithium ion cells/batteries – rechargeable – includes lithium polymer cells/batteries
- Lithium metal cells/batteries – generally non-rechargeable

This package contains lithium cells or batteries in the following configuration (tick applicable box):

Lithium Ion – Maximum of	Lithium Metal – Maximum of
<ul style="list-style-type: none"> <li>20 Watt-hours per cell; and</li> <li>100 Watt-hours per battery</li> </ul>	<ul style="list-style-type: none"> <li>1 gram of lithium metal per cell; and</li> <li>2 grams of lithium per battery</li> </ul>
<input type="checkbox"/> Cells or batteries only (ICAO/IATA Packing Instruction 965, Section II) – Cells or batteries in a package, without electronic equipment Package Limit: ≤2.7Wh = 2.5kg; or >2.7Wh but ≤20Wh = 8 cells; or >2.7Wh but ≤100Wh = 2 batteries	<input type="checkbox"/> Cells or batteries only (ICAO/IATA Packing Instruction 968, Section II) – Cells or batteries in a package, without electronic equipment Package Limit: ≤0.3g = 2.5kg; or >0.3g but ≤1g = 8 cells; or >0.3g but ≤2g = 2 batteries
<input type="checkbox"/> Cells or batteries only (ICAO/IATA UN 3480 Packing Instruction 965, Section IB) – Cells or batteries in a package, without electronic equipment _____ packages x _____ kg gross each	<input type="checkbox"/> Cells or batteries only (ICAO/IATA UN 3090 Packing Instruction 968, Section IB) – Cells or batteries in a package, without electronic equipment _____ packages x _____ kg gross each
<input type="checkbox"/> Packed with equipment (ICAO/IATA Packing Instruction 965, Section II) – Cells or batteries contained in a package with associated electronic equipment	<input type="checkbox"/> Packed with equipment (ICAO/IATA Packing Instruction 969, Section II) – Cells or batteries contained in a package with associated battery-powered equipment – with the batteries not installed in the equipment
<input type="checkbox"/> Contained in equipment (ICAO/IATA Packing Instruction 967, Section II) – Cells or batteries installed in equipment	<input type="checkbox"/> Contained in equipment (ICAO/IATA Packing Instruction 970, Section II) – Cells or batteries installed in equipment

> This package must be handled with care. A flammability hazard exists if the package is damaged.  
 > If this 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.  
 > For more information about the batteries contained in this package, call the following telephone number:

List telephone number here, including area code and any applicable country code

Name / Signature: \_\_\_\_\_ Date: \_\_\_\_\_

V.1.2 Nov 2012


# LITHIUM BATTERIES

## Step 1 – What type of Battery are you shipping?



### Lithium Ion Batteries

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



### Lithium Metal Batteries

Not rechargeable  
Longer life than the normal alkaline batteries and can be used in toys, cameras, ...  
A fire involving lithium metal batteries can NOT be extinguished by an aircraft halon fire extinguisher

# LITHIUM ION BATTERIES

## 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



# LITHIUM METAL BATTERIES

## 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



# LITHIUM ION BATTERIES

## Step 3 – How much watt per hour\* does your Battery have?

Cells and  
Batteries  
 $\leq 2.7$  watt/hour

Cells  
 $> 2.7$  watt/hour  
but  
 $\leq 20$  watt/hour

Batteries  
 $> 2.7$  watt/hour  
but  
 $\leq 100$  watt/hour

Cells  
 $> 20$  watt/hour  
or Batteries  
 $> 100$   
watt/hour

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

\*The watt per hour must be marked on the outside of the battery, for batteries manufactured since January 2009. Laptops, mobile phones and other small consumer electronics have batteries with less than 100 watt/hour (except perhaps some extra duration batteries – use the formula **Ampere hours x Voltage** in case the watt per hour is not marked in the battery).



# LITHIUM METAL BATTERIES

## Step 3 – How much Lithium does your Battery contain?

Cells and  
Batteries  
 $\leq 0.3 \text{ g}$

Cells  
 $> 0.3 \text{ g}$   
but  
 $\leq 1 \text{ g}$

Batteries  
 $> 0.3 \text{ g}$   
but  
 $\leq 2 \text{ g}$

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

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





## LITHIUM ION BATTERIES

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



$\leq 8$  Cells



$> 8$  Cells

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



## LITHIUM ION BATTERIES

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



≤ 2 Batteries



> 2 Batteries

Helpful note: Do not confuse a package with an overpack. There are no restrictions for the number of packages (and therefore Batteries) per overpack.



## LITHIUM METAL BATTERIES

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



$\leq 8$  Cells



$> 8$  Cells

Helpful note: Do not confuse a package with an overpack. There are no restrictions for the number of packages (and therefore Cells) per overpack.



## LITHIUM METAL BATTERIES

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



≤ 2 Batteries



> 2 Batteries

Helpful note: Do not confuse a package with an overpack. There are no restrictions for the number of packages (and therefore Batteries) per overpack.



## LITHIUM ION BATTERIES

### Step 3 – How much watt per hour\* does your Battery have?

Cells  
 $\leq 20$  watt/hour  
or Batteries  
 $\leq 100$  watt/hour

Cells  
 $> 20$  watt/hour  
or Batteries  
 $> 100$  watt/hour

\*The watt per hour must be marked on the outside of the battery, for batteries manufactured since January 2009. Laptops, mobile phones and other small consumer electronics have batteries with less than 100 watt/hour (except perhaps some extra duration batteries – use the formula **Ampere hours x Voltage** in case the watt per hour is not marked in the battery).



# LITHIUM ION BATTERIES

## Step 3 – How much watt per hour\* does your Battery have?

Cells  
 $\leq 20$  watt/hour  
or Batteries  
 $\leq 100$  watt/hour

Cells  
 $> 20$  watt/hour  
or Batteries  
 $> 100$  watt/hour

\*The watt per hour must be marked on the outside of the battery, for batteries manufactured since January 2009. Laptops, mobile phones and other small consumer electronics have batteries with less than 100 watt/hour (except perhaps some extra duration batteries – use the formula **Ampere hours x Voltage** in case the watt per hour is not marked in the battery).



# LITHIUM METAL BATTERIES

## Step 3 – How much Lithium does your Battery contain?

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

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



# LITHIUM METAL BATTERIES

## Step 3 – How much Lithium does your Battery contain?

Cells  
 $\leq 1$  g  
or Batteries  
 $\leq 2$  g

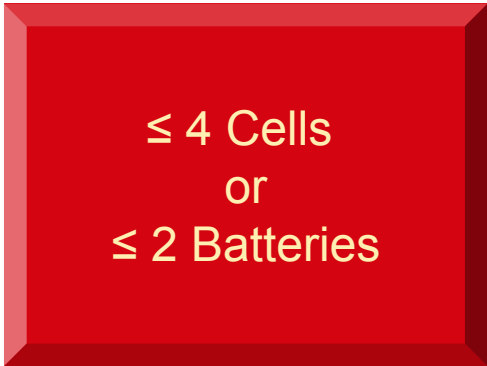
Cells  
 $> 1$  g  
or Batteries  
 $> 2$  g



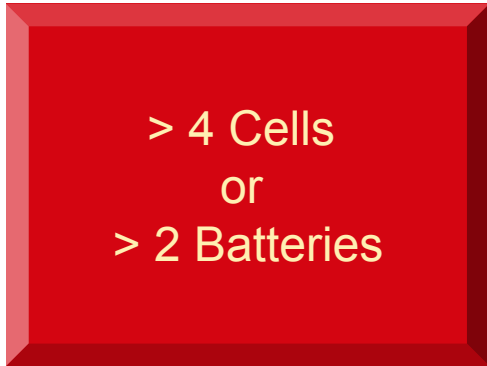


## LITHIUM ION BATTERIES

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



$\leq 4$  Cells  
or  
 $\leq 2$  Batteries



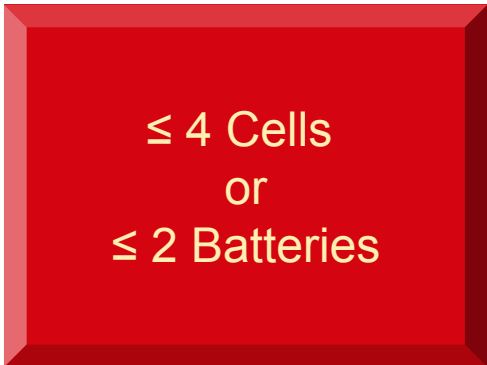
$> 4$  Cells  
or  
 $> 2$  Batteries

Helpful note: Do not confuse a package with an overpack. There are no restrictions for the number of packages (and therefore Cells /Batteries) per overpack.

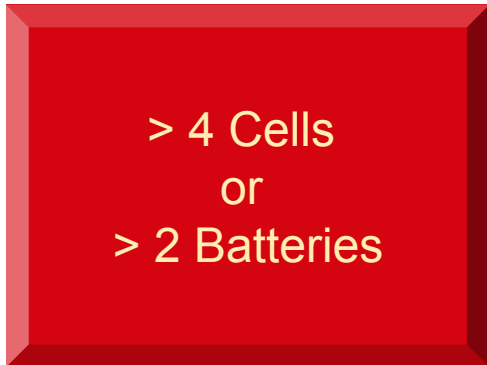


## LITHIUM METAL BATTERIES

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



$\leq 4$  Cells  
or  
 $\leq 2$  Batteries




$> 4$  Cells  
or  
 $> 2$  Batteries

Helpful note: Do not confuse a package with an overpack. There are no restrictions for the number of packages (and therefore Cells /Batteries) per overpack.



# LITHIUM BATTERIES




## UN3480, Lithium Ion Batteries - Packing Instruction 965 Section II

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each Battery must be individually packed in an inner package (plastic blister wrap, pasteboard, etc.) that protects each from a short circuit</p> <p>Strong outer package</p> <p>Maximum 2.5 kg (net quantity) per package</p>	<p>1.2m drop tested</p>	<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>“Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>	<p>must be completed</p> 	<p><u>TD</u> account must be approved</p> <p><u>ACS</u> ACP/LB booking mentioning Section II is required</p>



# LITHIUM BATTERIES


## UN3480, Lithium Ion Batteries - Packing Instruction 965 Section IA

Packaging	Package Tests	Documentation	Labeling	DHL Product Available
<p>Each Battery must be protected against a short circuit</p> <p>UN-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</p> <p>CAO = Cargo aircraft</p>	<p>Packing Group II performance standards</p>	<p>Shipper's Declaration</p> <p>Master Air Waybill</p>	<div>  <p>(CAO if applicable)</p>  </div>	<p><u>ACS only</u></p> <p>ACP/D booking required as PAX/CAO</p>
			 <p>Notoc Entry required</p>	



# LITHIUM BATTERIES


## UN3480, Lithium Ion Batteries - Packing Instruction 965 Section II

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each Battery must be individually packed in an inner package (plastic blister wrap, pasteboard, etc.) that protects each from a short circuit</p> <p>Strong outer package</p> <p>Maximum 8 Cells per package</p>	<p>1.2m drop tested</p>	<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>“Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>	<p>must be completed</p> 	<p><u>TD</u> account must be approved</p> <p><u>ACS</u> ACP/LB booking mentioning Section II is required</p>



# LITHIUM BATTERIES




## UN3480, Lithium Ion Batteries - Packing Instruction 965 Section II

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each Battery must be individually packed in an inner package (plastic blister wrap, pasteboard, etc.) that protects each from a short circuit</p> <p>Strong outer package</p> <p>Maximum 2 Batteries per package</p>	<p>1.2m drop tested</p>	<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>“Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>	<p>must be completed</p> 	<p><u>TD</u> account must be approved</p> <p><u>ACS</u> ACP/LB booking mentioning Section II is required</p>



# LITHIUM BATTERIES


## UN3480, Lithium Ion Batteries - Packing Instruction 965 Section IB

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each Battery must be individually packed in an inner package (plastic blister wrap, pasteboard, etc.) that protects each from a short circuit</p> <p>Strong outer package</p> <p>Maximum 10 kg gross weight per package (PAX &amp; CAO)</p> <p>PAX = Passenger aircraft</p> <p>CAO = Cargo aircraft</p>	1.2m drop tested	<p>The following statement is required on the waybill:</p> <p>“UN3480 Lithium Ion Batteries PI965 IB” The number of packages and the gross mass of each package</p> <p>An accompanying document which states the following:</p> <p>“Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>	  <p>must be completed</p>	<p><u>TD</u> account must be approved</p> <p><u>ACS</u> ACP/D booking required as PAX/CAO</p>
			 Notoc Entry required!	



# LITHIUM BATTERIES

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

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each Battery must be individually packed in an inner package (plastic blister wrap, pasteboard, etc.) that protects each from a short circuit</p> <p>Strong outer package</p> <p>Maximum number of Batteries: those necessary to power the equipment and 2 spares</p> <p>Maximum 5 kg net weight 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>“Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>	<p>must be completed</p> 	<p><u>TD</u> account must be approved</p> <p><u>ACS</u> ACP/LB booking mentioning Section II is required</p>








# LITHIUM BATTERIES

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



Packaging	Package Tests	Documentation	Labeling	DHL Product Available
<p>Each Battery must be protected from a short circuit</p> <p>UN Packaging for the Batteries</p> <p>Maximum 5 kg (excluding equipment) for PAX shipments</p> <p>Maximum 35 kg (excluding equipment) for CAO shipments</p> <p>Batteries packaging and the equipment must be placed in an overpack</p> <p>PAX = Passenger aircraft</p> <p>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>(CAO if applicable)</p>  </div>	<p><u>ACS only</u></p> <p>ACP/D booking required as PAX/CAO</p>
				<p>Notoc Entry required</p>

# LITHIUM BATTERIES

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


Packaging	Package Tests	Documentation	Labeling	DHL Product
Strong outer package	No requirements			

**Shipping to/from/within Asia?**



# LITHIUM BATTERIES

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




Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>The equipment must be protected against accidental activation</p> <p>Strong outer package</p> <p>Maximum 5 kg net weight per package</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>“Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>	<p>must be completed</p> 	<p><u>TD</u> account must be approved</p> <p><u>ACS</u> ACP/LB booking mentioning Section II is required</p>



# LITHIUM BATTERIES


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



Packaging	Package Tests	Documentation	Labeling	DHL Product Available
<p>Each Battery must be protected from a short circuit</p> <p>UN Packaging for the Batteries</p> <p>Maximum 5 kg (excluding equipment) for PAX shipments</p> <p>Maximum 35 kg (excluding equipment) for CAO shipments</p> <p>Batteries packaging and the equipment must be placed in an overpack</p> <p>PAX = Passenger aircraft</p> <p>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>   (CAO if applicable) </div> <div>  </div>	<p><u>ACS only</u></p> <p>ACP/D booking required as PAX/CAO</p>
				<p>Notoc Entry required</p>

# LITHIUM BATTERIES

## UN3090, Lithium Metal Batteries - Packing Instruction 968 Section II

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each Battery must be individually packed in an inner package (plastic blister wrap, pasteboard, etc.) that protects from a short circuit</p> <p>Strong outer package</p> <p>Maximum 2.5kg net weight per package</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 PI968”</p> <p>An accompanying document which states the following:</p> <p>“Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>	<p>must be completed</p> 	<p><u>TD</u> account must be approved</p> <p><u>ACS</u> ACP/LB booking mentioning Section II is required</p>




**NO LOOSE/BULK LITHIUM METAL BATTERY SHIPMENTS (PI968) FROM/TO ASIA PACIFIC**

Shipping to the US?



# LITHIUM BATTERIES

## UN3090, Lithium Metal Batteries - Packing Instruction 968 Section IA

Packaging	Package Tests	Documentation	Labeling	DHL Product Available
<p>Batteries must be protected against a short circuit</p> <p>UN-Packaging</p> <p>Maximum 2.5 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</p> <p>CAO = Cargo aircraft</p>	<p>Packing Group II performance standards</p>	<p>Shipper's Declaration</p> <p>Master Air Waybill</p>	<div>   </div> <div>  <p>Notoc Entry required</p> </div>	<p><u>ACS only</u></p> <p>ACP/D booking required as PAX/CAO</p>


**NO LOOSE/BULK LITHIUM METAL BATTERY SHIPMENTS (PI968) FROM/TO ASIA PACIFIC**

Shipping to the US?



# LITHIUM BATTERIES

## UN3090, Lithium Metal Batteries - Packing Instruction 968 Section II

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each Battery must be individually packed in an inner package (plastic blister wrap, pasteboard, etc.) that protects each from a short circuit</p> <p>Strong outer package</p> <p>Maximum 8 Cells per package</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 PI968”</p> <p>An accompanying document which states the following:</p> <p>“Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>	<p>must be completed</p> 	<p><u>TD</u> account must be approved</p> <p><u>ACS</u> ACP/LB booking mentioning Section II is required</p>


**NO LOOSE/BULK LITHIUM METAL BATTERY SHIPMENTS (PI968) FROM/TO ASIA PACIFIC**

Shipping to the US?



# LITHIUM BATTERIES

## UN3090, Lithium Metal Batteries - Packing Instruction 968 Section II

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each Battery must be individually packed in an inner package (plastic blister wrap, pasteboard, etc.) that protects each from a short circuit</p> <p>Strong outer package</p> <p>Maximum 2 Batteries per package</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”</p> <p>An accompanying document which states the following:</p> <p>“Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>	<p>must be completed</p> 	<p><u>TD</u> account must be approved</p> <p><u>ACS</u> ACP/LB booking mentioning Section II is required</p>

**NO LOOSE/BULK LITHIUM METAL BATTERY SHIPMENTS (PI968) FROM/TO ASIA PACIFIC**




Shipping to the US?





# LITHIUM BATTERIES

## UN3090, Lithium Metal Batteries - Packing Instruction 968 Section IB

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each Battery must be individually packed in an inner package (plastic blister wrap, pasteboard, etc.) that protects each from a short circuit</p> <p>Strong outer package</p> <p>Maximum 2.5 kg gross weight per package for PAX &amp; CAO</p> <p>PAX = Passenger aircraft</p> <p>CAO = Cargo aircraft</p>	1.2m drop tested	<p>The following statement is required on the waybill:</p> <p>“UN3090 Lithium Metal Batteries PI968 IB” The number of packages and the gross mass of each package</p> <p>An accompanying document which states the following:</p> <p>“Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required.</p> <p>Contact Nr: 00XX XXXX XXX XXX”</p>	 	<p><u>TD</u> account must be approved</p> <p><u>ACS only</u> ACP/D booking required as PAX/CAO</p>
			 Notoc Entry required	


**NO LOOSE/BULK LITHIUM METAL BATTERY SHIPMENTS (PI968) FROM/TO ASIA PACIFIC**

Shipping to the US?



# LITHIUM BATTERIES

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

Packaging	Package Tests	Documentation	Labeling	DHL Product
<p>Each Battery must be individually packed in an inner package (plastic blister wrap, pasteboard, etc.) that protects each from a short circuit</p> <p>Strong outer package</p> <p>Maximum number of Batteries: those necessary to power the equipment and 2 spares</p> <p>Maximum 5 kg net weight per package</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>“Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>	<p>must be completed</p> 	<p><u>TD</u> account must be approved</p> <p><u>ACS</u> ACP/LB booking mentioning Section II is required</p>

Shipping to the US?






# LITHIUM BATTERIES

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

Shipping to the US?



Packaging	Package Tests	Documentation	Labeling	DHL Product Available
<p>Each Battery must be protected from short circuit</p> <p>UN Packaging for the Batteries</p> <p>Maximum 5 kg (excluding equipment) for PAX shipments</p> <p>Maximum 35 kg (excluding equipment) for CAO shipments</p> <p>Batteries packaging and the equipment must be placed in an overpack</p> <p>PAX = Passenger aircraft</p> <p>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>(CAO if applicable)</p>  </div>	<p><u>ACS only</u></p> <p>ACP/D booking required as PAX/CAO</p>
				<p>Notoc Entry required</p>

# LITHIUM BATTERIES

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

Packaging	Package Tests	Documentation	Labeling	DHL Product
Strong outer package	No requirements			

**Shipping to/from/within Asia?**



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

**CAUTION!**

FRAGILE CORROSIVE FLAMMABLE

DO NOT LOAD OR TRANSPORT PACKAGE IF DAMAGED

For more information, call 1-800-4-A-AXXESS

## Shipping to the US?






# LITHIUM BATTERIES

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

Shipping to the US?



Packaging	Package Tests	Documentation	Labeling	DHL Product Available
<p>Each Battery must be protected from short circuit</p> <p>UN Packaging for the Batteries</p> <p>Maximum 5 kg (excluding equipment) for PAX shipments</p> <p>Maximum 35 kg (excluding equipment) for CAO shipments</p> <p>Batteries packaging and the equipment must be placed in a overpack</p> <p>PAX = Passenger aircraft</p> <p>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>(CAO if applicable)</p>  </div>	<p><u>ACS only</u></p> <p>ACP/D booking required as PAX/CAO</p>
				<p>Notoc Entry required</p>

## EXTRA REQUIREMENTS ACCORDING TO 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 IA and IB of Packing Instruction 968** must be labelled with the **CARGO AIRCRAFT ONLY** label.



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”.**



## EXTRA REQUIREMENTS ACCORDING TO 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 equipment and the batteries and cells are transported in accordance with Packing Instruction 969 or 970, as appropriate;
2. the package contains no more than the number of lithium metal batteries or cells necessary to power the intended piece of equipment;
3. the lithium content of each cell, when fully charged, is not more than 5 grams;
4. the aggregate lithium content of the anode of each battery, when fully charged, is not more than 25 grams; and
5. the net weight of lithium batteries does not exceed 5 kg (11 lb).





## EXTRA REQUIREMENTS ACCORDING TO USG-02

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 labelled with the **CARGO AIRCRAFT ONLY** label.



## EXTRA REQUIREMENTS ACCORDING TO USG-02

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”.**

Please contact [rcgsupport@dhl.com](mailto:rcgsupport@dhl.com) for specific information.



## EXTRA REQUIREMENTS (IN EXCESS OF STANDARD IATA DGR) FOR MAJOR CARRIERS/AIRLINES OPERATING IN ASIA

If shipping to/from/within Asia region, due to major Asian carriers/airlines have imposed additional and more stricter requirements (in excess of standard IATA DGR) applicable for PI967 or PI970 when there are less than/equal 4 cells/2 batteries contained in an equipment, while that shipment is exempted from labelling (lithium battery label) and additional information, it is mandatory that the DHL Express House Air Waybill must still be declared with those mandatory statement as appropriate with the Packing Instruction number herewith:

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

OR

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

**Furthermore loose/bulk lithium metal battery shipments are forbidden from/to/within Asia (PI968).**



# LITHIUM BATTERIES

## **Important Disclaimer:**

Please note that the information mentioned 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 of Lithium Batteries.

DHL will not be held responsible for any lack of accuracy of the information contained herewith.

