



## ***Air Transport and General Travel Advisory - 2009-2010***

This update is a PDF version of IDX Lithium Ion transportation advisory presented on the IDX website. It contains important information from IDX regarding the transportation of Lithium Ion batteries. The latest rules affect how Lithium Ion batteries are carried on-board passenger aircraft as well as the way they are classified, labeled, and packed when transported as air cargo or ground freight.

### **Guideline Summary of IATA Dangerous Goods Regulations as of 1/1/09 - Commercial Air Travel**

#### **Lithium Ion Batteries less than 100Wh**

You can safely carry on-board an unlimited amount of spare batteries, provided you take precautions by covering any exposed terminals with tape or put them in an insulated plastic bag. **All IDX batteries comply within this category (including disengaged ENDURA ELITE cartridges).**

#### **Lithium Ion Batteries over 100Wh and less than 160Wh**


You can safely carry on-board a maximum of two (2) spare batteries, taking safety precautions as noted above. You can carry on-board one (1) extra battery if it is physically installed or attached to a camera or other equipment.

#### **Lithium Ion Batteries over 160Wh (Non-IDX products)**

Carry-on of any spare battery over 160Wh is not allowed under any circumstances. You cannot carry-on or check-in this size battery, even if it is attached or installed in a camera or equipment. To transport batteries over 160Wh, you have to ship it as separate cargo and classified as Class 9 – Miscellaneous Dangerous Goods.

#### **Lithium Ion Batteries as Check-In Baggage**

You cannot check-in any spare batteries as baggage regardless of the battery watt hour (Wh) rating. However, if the battery is less than 160Wh and is physically installed or attached to a camera or equipment, you can transport this as check-in baggage.

	<b>Carry-on Baggage</b>	
	<b>On Equipment</b>	<b>Spares</b>
<b>E-7/E-7S</b> Qty. Allowed	<b>Yes</b> Unlimited	
<b>E-10/E-10S</b> Qty. Allowed	<b>Yes</b> Unlimited	
<b>E-HL9/E-HL9S</b> Qty. Allowed	<b>Yes</b> Unlimited	
<b>NP-L7/NP-L7S</b> Qty. Allowed	<b>Yes</b> Unlimited	
<b>ELITE</b> Qty. Allowed	<b>Yes</b> (1) ELITE on equipment plus (2) spare ELITE OR Unlimited PC-14 cartridges	
<b>SSL-VBG50/SL-VBD50</b> Qty. Allowed	<b>Yes</b> Unlimited	

- Please confirm with your airline carrier to determine any local rules and policies before traveling.
- Please do not use PowerLink (batteries linked together) during transportation of equipment.
- Spare batteries must be individually protected to prevent short circuiting. (see details within this document)

There is no limit to the number of IDX batteries a passenger can carry as baggage onto a commercial airliner (each is less than 100Wh including the disengaged ENDURA ELITE power cartridge battery). IDX Lithium Ion batteries listed in the table above are suitable for transport by air as non-restricted articles for carry-on baggage under the 2009/2010 DOT/IATA regulations.

If you choose to transport an ENDURA ELITE with its two cartridges intact, you can carry on-board a maximum of two (2) spare batteries. You can also carry on-board one (1) extra ELITE battery if it is physically installed or attached to a camera or equipment. We recommend passengers

traveling with 100-160Wh batteries to first secure approval for transport from the airline on which they are traveling.

Spare batteries must be safely transported and individually protected to prevent short circuiting. Place the battery in the original packaging, plastic bag or protective pouch—packaging that completely encloses the battery. Insulate the terminals by taping over exposed terminals.

**Luggage on passenger aircraft**

**- Check-In Baggage**


	Check-in Baggage	
	On Equipment	Spares
<b>E-7/E-7S</b> Qty. Allowed	<b>Yes</b> (1) on Equipment	<b>No</b>
<b>E-10/E-10S</b> Qty. Allowed	<b>Yes</b> (1) on Equipment	<b>No</b>
<b>E-HL9/E-HL9S</b> Qty. Allowed	<b>Yes</b> (1) on Equipment	<b>No</b>
<b>NP-L7/NP-L7S</b> Qty. Allowed	<b>Yes</b> (1) on Equipment	<b>No</b>
<b>ELITE</b> Qty. Allowed	<b>Yes</b> (1) on Equipment	<b>No</b>
<b>SSL-VBG50/SL-VBD50</b> Qty. Allowed	<b>Yes</b> (1) on Equipment	<b>No</b>

- Please confirm with your airline carrier to determine any local rules and policies before traveling.
- Please do not use PowerLink (batteries linked together) during transportation of equipment.
- Spare batteries must be individually protected to prevent short circuiting. (see details within this document)

Passengers cannot check-in as baggage any spare batteries regardless of the battery watt-hour

(Wh) rating. However, if your battery is less than 160Wh and is physically installed or attached to a camera or equipment, it can be transported as check-in baggage.

**Cargo Transportation - Air Cargo**

	<b>Air Cargo Parcel</b>  Batteries Only	<b>Air Cargo Parcel</b>  Batteries with Equipment
<p><b>E-7/E-7S</b> <b>(1.19lbs/1.15lbs)</b> <b>Qty. Allowed</b>  <b>Required Label</b> <b>Required Document</b></p>	<p><b>Yes</b>  Up to **22lbs per box (10kgs)</p>	<p><b>Yes</b>  (1) on eqp. plus (2) spares per Eqp. OR Up to **22lbs per box (10kgs)</p>
<p><b>E-10/E-10S</b> <b>(1.72lbs/1.65lbs)</b> <b>Qty. Allowed</b>  <b>Required Label</b> <b>Required Document</b></p>	<p><b>Yes</b>  Up to **22lbs per box (10kgs)</p>	<p><b>Yes</b>  (1) on eqp. plus (2) spares per Eqp. OR Up to **22lbs per box (10kgs)</p>
<p><b>E-HL9/E-HL9S</b> <b>(1.63lbs/1.59lbs)</b> <b>Qty. Allowed</b>  <b>Required Label</b> <b>Required Document</b></p>	<p><b>Yes</b>  Up to **22lbs per box (10kgs)</p>	<p><b>Yes</b>  (1) on eqp. plus (2) spares per Eqp. OR Up to **22lbs per box (10kgs)</p>
<p><b>NP-L7/NP-L7S</b> <b>(1.01lbs/1.01lbs)</b> <b>Qty. Allowed</b> <b>Required Label</b></p>	<p><b>Yes</b>  Up to **22lbs per box (10kgs)</p>	<p><b>Yes</b>  (1) on eqp. plus (2) spares per Eqp. OR Up to **22lbs per box</p>

<p><b>NP-L7/NP-L7S</b></p> <p><b>(1.01lbs/1.01lbs)</b></p> <p><b>Qty. Allowed</b></p> <p><b>Required Label</b></p> <p><b>Required Document</b></p>	<p><b>Yes</b></p> <p>Up to **22lbs per box (10kgs)</p>	<p><b>Yes</b></p> <p>(1) on eqp. plus (2) spares per Eqp. OR Up to **22lbs per box (10kgs)</p>
<p><b>ELITE (2.76lbs)</b></p> <p><b>Qty. Allowed</b></p> <p><b>Required Label</b></p> <p><b>Required Document</b></p>	<p><b>Yes</b></p> <p>Up to **22lbs per box (10kgs)</p>	<p><b>Yes</b></p> <p>(1) on eqp. plus (2) spares per Eqp. OR Up to **22lbs per box (10kgs)</p>
<p><b>PC-14 (0.93lbs)</b></p> <p><b>Qty. Allowed</b></p> <p><b>Required Label</b></p> <p><b>Required Document</b></p>	<p><b>Yes</b></p> <p>Up to **22lbs per box (10kgs)</p>	<p><b>N/A</b></p>
<p><b>SSL-VBG50/SL-VBD50</b></p> <p><b>(0.55lbs)</b></p>	<p><b>Yes</b></p>	<p><b>Yes</b></p>

\*\* The box weight includes packed equipment and all carton materials.

- Please confirm with your carrier to determine any local rules and policies before shipping.
- Please do not use PowerLink (batteries linked together) during transportation of equipment.
- Spare batteries must be individually protected to prevent short circuiting. (see details within this document)

**Weight** - The quantity per package of IDX Lithium Ion batteries cannot exceed twenty-two (22) pounds and must be packed in strong, outer packaging. There is no limit to the amount of packages sent in one shipment, provided the weight of each individual package is less than 22 pounds (10 Kg).

**Handling Label** - Each package must be marked with a Lithium Ion battery handling label attached to two separate sides of the package without overlap on joint surfaces. The label design with all the required information is provided by IATA. The minimum size of the label is 4.72" x 4.33" (12cm x 11cm). IDX ensures that outbound air freight shipments contain the approved labeling.

**Please see printable version at the end of this document.**

**Letter of Certification** - Each shipment must be accompanied with a document such as an air waybill with the following indicators:

- the package contains Lithium Ion batteries and classified as "Lithium-Ion battery, not restricted"
- the package must be handled with care and that a flammability hazard exists if the package is damaged
- inclusion of a telephone number for additional information in case of emergency
- special procedures should be followed in the event the package is damaged to include inspection and repackaging if necessary.


**Please see printable version at the end of this document.**

### **Durable Shipping Box Guidelines**

- Each air cargo package must be capable of withstanding a 40-inch drop test in a UN approved drop-tested box in any orientation without:
  - 1) incurring damage to the batteries or cells
  - 2) the shifting of contents to allow battery to battery contact
  - 3) the release of contents
- You have to be able to show certification that the box containing the batteries has been subject to UN testing and these documents have to be supplied immediately when required, although it is not compulsory to send it with the shipment.
- It is allowable to also place the drop-tested box containing Lithium Ion batteries inside a standard outer carton. In this case, please notify your freight forwarder that batteries packed inside are in an approved inner box.
- Batteries must be packed in inner packaging that completely encloses the battery.
- Batteries must be protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging.
- All air cargo Lithium Ion battery shipments leaving IDX are packed in UN approved drop tested boxes. UN test certifications are available within this document.
- Remember that it's now required to indicate the watt-hour (Wh) rating on the battery case exterior.
- Please note that any Lithium Ion battery over 100Wh is classified as Class 9 – Miscellaneous Dangerous Goods and requires additional, detailed procedures. IDX therefore

recommends customers disengage ENDURA ELITE power cartridges prior to shipment in order to comply with a battery rating under 100Wh to avoid Class 9 requirements.

### Cargo Transportation – Ground Cargo

	<b>Ground Cargo</b> Parcel / Truck etc... Batteries Only	<b>Ground Cargo</b> Parcel / Truck etc... Batteries with Equipment
<p><b>E-7/E-7S</b> (1.19lbs/1.15lbs) Qty. Allowed Required Label Required Document</p>	<p><b>Yes</b> Up to (12) pcs per box OR Up to **66lbs per box (30kgs) Not required Not required</p>	
<p><b>E-7/E-7S</b> (1.19lbs/1.15lbs) Qty. Allowed Required Label Required Document</p>	<p><b>Yes</b> Up to (12) pcs per box OR Up to **66lbs per box (30kgs) Not required Not required</p>	
<p><b>E-10/E-10</b> (1.72lbs/1.65lbs) Qty. Allowed Required Label Required Document</p>	<p><b>Yes</b> Up to (12) pcs per box OR Up to **66lbs per box (30kgs) Not required Not required</p>	
<p><b>E-HL9/E-HL9S</b> (1.63lbs/1.59lbs)</p>	<p><b>Yes</b> Up to (12) pcs per box OR</p>	

Qty. Allowed	Up to **66lbs per box (30kgs)
Required Label	Not required
Required Document	Not required
<b>NP-L7/NP-L7S</b> (1.01lbs/1.01lbs)	<b>Yes</b>
Qty. Allowed	Up to (12) pcs per box OR Up to **66lbs per box (30kgs)
Required Label	Not required
Required Document	Not required
<b>ELITE (2.76lbs)</b>	<b>Yes</b>
Qty. Allowed	Up to (6) pcs per box OR Up to **66lbs per box (30kgs)
Required Label	Not required
Required Document	Not required
<b>PC-14 (0.93lbs)</b>	<b>Yes</b>
Qty. Allowed	Up to (12) pcs per box OR Up to **66lbs per box (30kgs)
Required Label	Not required
Required Document	Not required
<b>SSL-VBG50/SL-VBD50</b> (0.55lbs)	<b>Yes</b>
Qty. Allowed	Up to (12) pcs per box OR Up to **66lbs per box (30kgs)
Required Label	Not required
Required Document	Not required

\*\* The box weight includes packed equipment and all carton materials.

- Please confirm with your carrier to determine any local rules and policies before shipping.
- Please do not use PowerLink (batteries linked together) during transportation of equipment.
- Spare batteries must be individually protected to prevent short circuiting. (see details within this document)

The major difference in regulations regarding ground freight of Lithium Ion batteries is the maximum package weight. For road freight, the maximum weight per package is sixty-six (66) pounds. Please see details on Durable Shipping Box section above as reference. IDX recommends following all the rules surrounding packaging, weight, labeling and supporting documentation apply anytime Lithium Ion batteries under 100Wh are shipped—even when customers are shipping back product to IDX for servicing. Take care when returning EDURA ELITE batteries that one PC-14 cartridge is removed from the battery casing prior to shipping and packed correctly. IDX will return the ELITE in the same safe manner; this will also ensure the package will not be considered under Class 9 standards.

Lithium Ion battery transportation regulations exist for the safety of all. IDX takes pride in manufacturing Lithium Ion batteries that are safe to carry on-board in quantity and transport by air. We strongly encourage our customers to follow the DOT/IATA rules; if you need further clarification on any part regarding the new transport mandates, please feel free to contact us.

Additional information on this subject can be found on the following websites:

[DOT - Department of Transportation](#)

[IATA - International Air Transportation Association](#)

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## Letter of Certification

It is hereby certified that the Lithium Ion batteries specified below are NOT RESTRICTED and follow the packing instruction set forth under the IATA Dangerous Goods Regulations (51<sup>st</sup> Edition effective January 1, 2010).

### **Type of battery:**

\_\_\_\_\_ Lithium Ion Battery – Packing Instruction 965 Section II

\_\_\_\_\_ Lithium Ion Battery – Packing Instruction 966 Section II – enclosed with product

\_\_\_\_\_ Lithium Ion Battery – Packing Instruction 967 Section II – enclosed in product

Do not damage or mishandle this package.

\* In case the package is damaged, write handling procedures according to the applicable Packing Instruction.

\* It must also be noted that a flammability hazard exists if the package is damaged.

\* If the package is damaged, batteries must be protected so as to prevent short circuit and protect against contact with conductive materials during transport.

\* If package is damaged, batteries must be isolated, inspected and repacked.

### **Emergency contact information:**

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

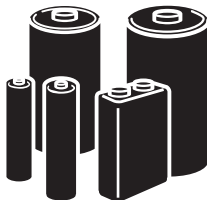
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Printed Name:  
\_\_\_\_\_

Name of Company:  
\_\_\_\_\_

CAUTION!



IF DAMAGED

## Lithium ion batteries

DO NOT LOAD OR TRANSPORT  
PACKAGE IF DAMAGED

For more information, call

1-800-424-9300 North America  
1-703-527-3887 International