

LEGEND:

>	Greater than
≤	Equal to or Less than

**LITHIUM BATTERIES - QUICK REFERENCE GUIDE**

RECHARGEABLE  
Lithium Ion Batteries

Lithium Ion Batteries

Lithium Ion Batteries  
Packed with Equipment

Lithium Ion Batteries  
Contained (installed) in Equipment



**UN 3480  
PI 965  
Section IA**



Per Cell: > 20Wh  
Per Battery: > 100Wh  
PAX Limit: FORBIDDEN  
CAO Limit: 35kg/pkg


- DGD required
- Class 9 Lithium battery label and CAO label required
- PG II UN packaging required
- IMP: RBI



**UN 3481  
PI 966  
Section I**

Per Cell: > 20Wh  
Per Battery: > 100Wh  
Qty Limit per pkg: minimum number required to power the equipment + 2 spare sets  
PAX Limit: 5kg/pkg  
CAO Limit: 35kg/pkg  
Limit excludes weight of equipment

- DGD required
- Class 9 Lithium battery label required
- PG II UN packaging required
- IMP: RLI





**UN 3481  
PI 967  
Section I**


Per Cell: > 20Wh  
Per Battery: > 100Wh  
PAX Limit: 5kg/pkg  
CAO Limit: 35kg/pkg  
Limit excludes weight of equipment

- DGD required
- Class 9 Lithium battery label required
- Special packaging requirements apply
- IMP: RLI

~ OR ~

**UN 3480  
PI 965  
Section IB**



Per Cell: ≤ 20 Wh  
Per Battery: ≤ 100 Wh  
PAX Limit: FORBIDDEN  
CAO Limit: 10kg/pkg


- DGD required
- Class 9 Lithium battery label, CAO label and Lithium battery mark required
- Special packaging requirements apply
- IMP: RBI

~ OR ~


IMPORTANT!!!

- UN 3480, State of Charge ≤ 30%. Must not be packed with Class 1 (except Div 1.4S), Div 2.1, Class 3, Div 4.1 and Div 5.1.
- UN 3480, Section II, No BUP, No more than 1 package of cells / batteries in a consignment / an overpack.
- UN 3481, Equipment = device for which the lithium cells / batteries will provide electrical power for its operation.

“Adequate Instruction” as an alternative to training (Ref: DGR 1.6)




**UN 3480  
PI 965  
Section II**



Per Cell:	
≤ 2.7Wh	> 2.7Wh but ≤ 20Wh
CAO Limit [PAX FORBIDDEN]:	
2.5kg/pkg	8 cells/pkg
Per Battery:	
≤ 2.7Wh	> 2.7Wh but ≤ 100Wh
CAO Limit [PAX FORBIDDEN]:	
2.5kg/pkg	2 batteries/pkg

- No DGD
- Declaration on AWB
- CAO label and Lithium battery mark required
- Special packaging requirements apply
- IMP: EBI


**UN 3481  
PI 966  
Section II**



Per Cell: ≤ 20Wh  
Per Battery: ≤ 100Wh  
Qty Limit per pkg: minimum number required to power the equipment + 2 spare sets  
PAX Limit: 5kg/pkg  
CAO Limit: 5kg/pkg  
Limit excludes weight of equipment

- No DGD
- Declaration on AWB
- Lithium battery mark required
- Special packaging requirements apply
- IMP: ELI

**UN 3481  
PI 967  
Section II**



Per Cell: ≤ 20Wh  
Per Battery: ≤ 100Wh  
PAX Limit: 5kg/pkg  
CAO Limit: 5kg/pkg  
Limit excludes weight of equipment

- No DGD
- Declaration on AWB
- If more than 4 cells / 2 batteries or more than 2 packages containing no more than 4 cells / 2 batteries in the consignment:
  - Lithium battery mark required
- Special packaging requirements apply
- IMP: ELI

>	Greater than
≤	Equal to or Less than

NON-RECHARGEABLE  
Lithium Metal Batteries


Lithium Metal Batteries

Lithium Metal Batteries  
Packed with Equipment

Lithium Metal Batteries  
Contained (installed) in Equipment




**UN 3090  
PI 968  
Section IA**



Per Cell: > 1g lithium  
Per Battery: > 2g lithium  
PAX Limit: FORBIDDEN  
CAO Limit: 35kg/pkg

- DGD required
- Class 9 Lithium battery label and CAO label required
- PG II UN packaging required
- IMP: RBM



**UN 3091  
PI 969  
Section I**

Per Cell: > 1g lithium  
Per Battery: > 2g lithium  
Qty Limit per pkg: minimum number required to power the equipment + 2 spare sets  
PAX Limit: 5kg/pkg  
CAO Limit: 35kg/pkg  
Limit excludes weight of equipment

- DGD required
- Class 9 Lithium battery label required
- PG II UN packaging required
- If shipped on PAX aircraft, metal outer / rigid metal intermediate required
- IMP: RLM





**UN 3091  
PI 970  
Section I**


Per Cell: > 1g lithium  
Per Battery: > 2g lithium  
Qty Limit / Equipment: ≤ 12g/cell or ≤ 500g/battery  
PAX Limit: 5kg/pkg  
CAO Limit: 35kg/pkg  
Limit excludes weight of equipment

- DGD required
- Class 9 Lithium battery label required
- Special packaging requirements apply
- IMP: RLM

~ OR ~

**UN 3090  
PI 968  
Section IB**



Per Cell: ≤ 1g lithium  
Per Battery: ≤ 2g lithium  
PAX Limit: FORBIDDEN  
CAO Limit: 2.5kg/pkg


- DGD required
- Class 9 Lithium battery, CAO label and Lithium battery mark required
- Special packaging requirements apply
- IMP: RBM

~ OR ~


IMPORTANT!!!

- UN 3090, Must not be packed with Class 1 (except Div 1.4S), Div 2.1, Class 3, Div 4.1 and Div 5.1.
- UN 3090, Section II, No BUP, No more than 1 package of cells / batteries in a consignment / an overpack.
- UN 3091, Equipment = device for which the lithium cells / batteries will provide electrical power for its operation.

“Adequate Instruction” as an alternative to training (Ref: DGR 1.6)



**UN 3090  
PI 968  
Section II**




Per Cell:	≤ 0.3g lithium	> 0.3g but ≤ 1g lithium
CAO Limit [PAX – FORBIDDEN]:	2.5kg/pkg	8 cells/pkg

Per Battery:	≤ 0.3g lithium	> 0.3g but ≤ 2g lithium
CAO Limit [PAX – FORBIDDEN]:	2.5kg/pkg	2 batteries/pkg

- No DGD
- Declaration on AWB
- CAO label and Lithium battery mark required
- Special packaging requirements apply
- IMP: EBM


**UN 3091  
PI 969  
Section II**



Per Cell: ≤ 1g lithium  
Per Battery: ≤ 2g lithium  
Qty Limit per pkg: minimum number required to power the equipment + 2 spare sets  
PAX Limit: 5kg/pkg  
CAO Limit: 5kg/pkg  
Limit excludes weight of equipment

- No DGD
- Declaration on AWB
- Lithium battery mark required
- Special packaging requirements apply
- IMP: ELM

**UN 3091  
PI 970  
Section II**



Per Cell: ≤ 1g lithium  
Per Battery: ≤ 2g lithium  
PAX Limit: 5kg/pkg  
CAO Limit: 5kg/pkg  
Limit excludes weight of equipment

- No DGD
- Declaration on AWB
- If more than 4 cells / 2 batteries or more than 2 packages containing no more than 4 cells / 2 batteries in the consignment:
  - Lithium battery mark required
- Special packaging requirements apply
- IMP: ELM