PI 965, Lithium ion or Lithium polymer Cells and Batteries (UN3480)

	Cells or Batteries as Class 9 Dangerous Goods		Excepted Cells or Batteries	
		Section IA Section IB		Section II
		Types of cells or batteries	Types of cells or batteries	Types of cell or battery
		1) Cells more than 20Wh.	1) Cells or batteries with a Wh	1) Cells or batteries with a Wh
		2) Batteries more than 100Wh.	rating not more than 2.7Wh .	rating not more than 2.7Wh .
Types of cells	s or batteries	3) Types of cells or batteries	2) Cells with a Wh rating not more	2) Cells with a Wh rating not
		subject to Section IB but	than 20Wh.	more than 20Wh.
		exceed the limitation of	3) Batteries with a Wh rating not	3) Batteries with a Wh rating not
		Section IB.	more than 100Wh.	more than 100Wh.
Limitations	Number of cells or batteries per package.	N/A	If the numbers of cells or batteries in a package exceed the limitation for Section II, those can be transported under the provision of Section IB (Class 9 Dangerous Goods).	Above 1), 2) and 3) 1) No Limit 2) 8 Cells. 3) 2 Batteries. Note: Different type of cells or batteries must not be packed together in one outer packaging.
	Net Quantity			Above 1), 2) and 3)
	(Mass) of cells	PAX aircraft: 5kg	Gross weight of the package must	1) 2.5kg per package
	or batteries	CAO aircraft: 35kg	not exceed 10kgG.	2) N/A
	per package			3) N/A
UN Test		Cells and batteries must pass	Cells and batteries must pass the	Cells and batteries must pass the
		the 38.3 UN Test.	38.3 UN Test.	38.3 UN Test.
Shipper's Declaration for Dangerous Goods (DGD)		Yes, required.	Not required.	Not required.
		"Dangerous Goods as per	• The name and address of the	"Lithium ion Batteries in
		attached Shipper's Declaration"	shipper and consignee.	compliance with Section II of PI
		and "Cargo Aircraft Only" if		965".
AWB Indicate	ion	applicable.	• Lithium ion cells or batteries PI	
			$965 ext{ IB}$	
			• The number of packages and the	
			gross mass of each package.	
			• The package contains Lithium	•
			ion cells or batteries.	ion cells or batteries.
			• The package must be handled	
			with care and that a	with care and that a
			flammability hazard exists if the	flammability hazard exists if
			package is damaged.	the package is damaged.
			• Special procedure must be	•
Other Document			followed in the event the	followed in the event the
		N/A	package is damaged, to include inspection and repacking if	package is damaged, to include inspection and
		14/17	necessary.	repacking if necessary.
			• A telephone number for	
			additional information.	additional information.
				To be continued.

	Section IA	Section IB	Section II
UN Specification Packaging	Yes, UN specification packagings meeting PG II performance standard, must be used. However, lithium ion batteries with a mass of 12kg or greater and having a strong, impact-resistant outer casing, or assembles of such batteries, may be transported when packed in strong outer packagings under the approval of the state of origin. A copy of approval must accompany.	No, UN specification packaging is not required. But the packaging must be test for 1.2m drop test.	No But the packaging must be test for 1.2m drop test.
Class 9 Hazard Label	Yes	Yes	Not required.
Lithium Battery Handling Label	No.	Yes	Yes , must be affixed on the Package.
NOTOC (requirement for Airlines)	Yes, required.	Yes, required.	Not required.
All other requirements in DGR	Must be applied.	Must be applied.	Not applicable. (must meet requirements in PI965 and applicable Special Provisions must be observed.)
Training Requirement	Yes, required including shippers	Yes, required including shippers.	Necessary instruction must be given to the handling personnel but training is not a mandatory.
Acceptance Check by using	Yes, a full acceptance check by	Yes, but dedicated check list for	Not Required.
check list	using normal check list is	Section IB batteries like Dry Ice can	
(requirement for Airlines)	required.	be used. The IATA develop it.	
Shipper Built ULD	Must not be included in BUP	Must not be included in BUP	Can be included in BUP

Section IA, other changes and additional item.

- 1. Another type of UN specification packaging, 4N (other metal, other than steel or aluminium) can be used as Outer Packaging.
- 2. There are some changes in Additional Requirements Section IA, please see IATA DGR 54^{th} edition.

PI 966 Lithium ion or lithium polymer cells and batteries packed with equipment (UN3481)

Section I, Change and additional requirements.

- 1. Another type of UN specification packaging, 4N (other metal, other than steel or aluminium) can be used as Outer Packaging.
- 2. Table 966-I will be modified as follows;

UN number	Net quantity per package Passenger aircraft	Net quantity per package Cargo Aircraft Only
UN3481, Lithium ion batteries packed with equipment	5kg	35kg

Section II, change and additional requirements

1. AWB requirement will be modified as;

The words "Lithium ion batteries in compliance with Section II of PI 966" must be shown on the AWB.

2. The limitation of Section II batteries will be added as follows;

Table 966-II

	Passenger aircraft	Cargo Aircraft Only
Net quantity of Lithium ion cells or batteries	5kg	5kg
per package	OKg	

PI 967 Lithium ion or lithium polymer cells and batteries contained in equipment (UN3481)

Section I, Table 967-I will be modified as follows.

Table 967-I

UN number	Net quantity per package Passenger aircraft	Net quantity per package Cargo Aircraft Only
UN3481, Lithium ion batteries contained in equipment.	$5 \mathrm{kg}$	$35 \mathrm{kg}$

Section II, change and additional requirements

1. AWB requirement will be modified as;

The words "Lithium ion batteries in compliance with Section II of PI 967" must be shown on the AWB.

2. The limitation of Section II batteries will be added as follows;

Table 967-II

	Passenger aircraft	Cargo Aircraft Only
Net quantity of Lithium ion cells or batteries	5kg	5kg
per package		

Other changes and additional items.

General requirements in PI 965, 966 and 967, there are some change and additional requirements as follows.

- · Cells and batteries must be manufactured under a quality management program as described in 3.9.2.6(e) of 54th edition of DGR.
- · Each cell and battery is of the type proven to meet the requirements of each test in the UN Manual of Tests and Criteria, Part III, subsection 38.3. However, batteries and cells manufactured before 1 January 2014 conforming to a design type tested according to the requirements of the fifth revised edition of the UN Manual of Tests and Criteria, Part III, subsection 38.3 may continue to be transported.

Note: NCA is not in a position to take any responsibility for the accuracy of the table above.

The IATA Dangerous Goods Regulations must be observed.