

## Lithium Batteries:

Lithium batteries are increasingly used because they generate high energy compared to conventional nickel-metal batteries. However, the abundant energy that makes them such efficient batteries also makes them prone to generating heat and starting fires.

There are two basic types of lithium batteries, both of which have the potential to catch fire.

- ♦ Non-rechargeable Lithium metal batteries – disposable (or primary) batteries as generally utilised as the conventional type of batteries.
- ♦ Rechargeable Lithium-ion batteries – rechargeable (or secondary) batteries as found in laptop computers, mobile phones, iPods and other music players, electric bicycles and some power tools.

There are limits to the type and quantity of lithium batteries you can carry on board an aircraft. This restriction relates to their power rating – measures in Watt hours (Wh), or their lithium content.

- ♦ **Small Size** /Low Power = up to 100Wh for rechargeable, or lithium content of not more than 2g for non-rechargeable;
- ♦ **Medium Size** /Medium Power = more than 100Wh and up to 160Wh;
- ♦ **Large Size** / High Power = more than 160Wh.

### Which lithium batteries can I carry?

**1. Small Rechargeable and Small Non-rechargeable Lithium Batteries** (up to 100Wh / up to 2g lithium) fitted within portable personal use electronic devices such as watches, cameras, mobile phones, laptops, etc:

**CARRIED IN CARRY-ON BAGGAGE IS RECOMMENDED**

**2. Small Spare Batteries** must be no more than 2 units of the size as used in laptops or similar devices AND 12 pieces of up to AA or 9V battery size, packed to protect batteries from short-circuiting (e.g. In original packaging or packed individually to insulate terminals).

**CARRIED IN CARRY-ON BAGGAGE ONLY**

**3. Medium Rechargeable Lithium Batteries** (more than 100Wh and up to 160Wh) ie Batteries fitted within the commercial and some small medical portable devices.

**CARRIED AS CARRY-ON BAGGAGE IS RECOMMENDED**

**4. Medium Sized Spare Batteries** maximum of 2 units packed in original packaging or packed individually to insulate the terminals.

**CARRIED IN CARRY-ON BAGGAGE ONLY**

**5. Large Rechargeable** (160Wh and greater) and **Medium/ Large Non-rechargeable Lithium Batteries** (more than 2g lithium content)

**NOT PERMITTED ONBOARD PASSENGER AIRCRAFT**

**Note: All equipments in checked baggage must be securely switched OFF**



If In Doubt,  
**ASK!**

For more information

Log on to

[WWW.FLYROYALBRUNEI.COM](http://WWW.FLYROYALBRUNEI.COM)

IATA DANGEROUS GOODS

JANUARY 2013



## NEW RESTRICTIONS ON CARRIAGE OF **LITHIUM BATTERIES**

A guide for aircraft passengers

IATA DANGEROUS GOODS