

TECHNICAL NOTE

Travelling by air with Li-ion powered devices

The International Air Transport Association (IATA) has issued regulations to limit the risk of overheating associated with larger Li-ion batteries.

Extrima Hydrogen Leak Detector and IRwin Methane Leak Detector are both powered by integrated Li-ion batteries.

Both of these detectors are allowed both as carry –on and checked baggage according to these regulations.

Currently there is no marking of the battery capacity on neither Extrima nor IRwin. This will be rectified shortly.

The detectors are defined as PEDs (Portable Electrical Devices). PEDs with integrated (“in equipment”) batteries with an energy content of up to 100 Wh can be carried on-board or checked in.

Generally it is considered safer to carry the PEDs as carry-on luggage in the cabin and if the operator has stricter rules it might therefore be easier to be allowed to bring the equipment if taking it as carry-on.

Extrima battery data:



4800 mAh
11.25V / 54 Wh

Li-ion



IRwin battery data:



10 050 mAh
7.2V / 73 Wh

Li-ion



Table from IATAs official passenger information:

Carriage of portable electronic devices (PED), portable medical electronic devices (PMED) and spare batteries by passengers is dependent on the Watt-hour (Wh) rating for lithium ion (rechargeable) batteries or the lithium metal content for non-rechargeable batteries.

Use the below table to determine if your PED, PMED or spare battery(ies) can be carried.

Wh rating or lithium metal content	Configuration	Carry-on baggage	Checked baggage	Operator approval
≤ 100 Wh / 2g	In equipment (PED or PMED)	Yes (max 15 PED/PMED ¹)	Yes	No ¹
	Spare battery(ies)	Yes (max 20 spare batteries ²)	No	No ²
>100 to ≤160Wh	In equipment (PED or PMED)	Yes	Yes	Yes
	Spare battery(ies)	Yes (max 2 spare batteries)	No	Yes
>160Wh	Must be prepared and carried as cargo in accordance with the IATA Dangerous Goods Regulations			
> 2g ≤ 8g	In equipment (PMED only)	Yes	Yes	Yes
	Spare batteries for PMED	Yes (max 2 spare batteries)	No	Yes

1. Each person is limited to a maximum of 15 PED. The operator may approve the carriage of more than 15 PED.
2. Each person is limited to a maximum of 20 spare batteries of any type. The operator may approve the carriage of more than 20 batteries.

[Link](#) to same IATA document.

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