

Small Vehicles Powered by Lithium Batteries – Passenger Provisions

Updated 19 February 2016

Background

This notice is in response to questions raised by operators regarding the acceptability of small vehicles that are powered by lithium ion batteries in passenger checked and/or carry-on baggage. There have been reports of these small vehicles being sold at airports in airside shops, as well as being available in many cities, particularly in Asia.

Some examples of these small lithium battery-powered vehicles are: airwheel, solowheel, hoverboard, mini-segway, balance wheel.



Discussion took place with a number of the members of the ICAO Dangerous Goods Panel as to how these devices should be treated for the purposes of the provisions of Dangerous Goods Carried by Passengers and Crew, DGR Subsection 2.3.

The agreed view is that these devices are not "mobility aids", but instead be treated as "portable electronic devices" (PED) on the basis that the item subject to the Regulations is the lithium ion battery that powers these devices.

The allowance for passengers or crew to have PED in their checked or carry-on baggage is determined by the size (Watt-hour rating) of the lithium ion battery as follows:

- where the lithium ion battery does not exceed 100 Wh passengers and crew may have these devices in either checked or carry-on baggage. Approval of the operator is not required;
- where the lithium ion battery exceeds 100 Wh but does not exceed 160 Wh passengers and crew may have these devices in either checked or carry-on baggage, but the approval of the operator is required; and

• where the lithium ion battery exceeds 160 Wh the device is forbidden from being in either passenger or crew checked or carry-on baggage.

Recommendations

In areas and cities where these devices are readily available operators should ensure that passenger handling staff and the ground service provider, where applicable, are made aware that these devices are subject to the restrictions applicable to PED as set out above.

Operators should consider developing posters, notices or other material with pictures or images of these small lithium battery-powered vehicles for display on their websites, at self-serve kiosks and check-in counters, specifically at airports serving cities where these devices are available, to alert passengers to the conditions applicable to their carriage in checked or carry-on baggage.

At these airports, the operators may wish to bring this matter to the attention of the airport operator's committee so that a coordinated and consistent message is presented to passengers. The airport operator's committee may also wish to coordinate with the airport operator to ensure that on-airport retailers are made aware of the restrictions that apply to the carriage of these devices by passengers, and potentially the restriction on sale to passengers where the operator does not approve the carriage of PED with a lithium ion battery that exceeds 100 Wh.

It is recommended that operators include the following in their operational manuals, or instructions to passenger service staff to address the passenger carriage of these small lithium battery-powered vehicles:

Personnel, including those of ground service providers, must verify that:

- the devices are protected against accidental activation by either being in the original manufacturer's packaging or by taping over the on/off switch;
- the Watt-hour rating of the lithium ion battery in the device does not exceed 160 Wh. All
 lithium ion batteries are required to have the Watt-hour rating marked on the outside of
 the battery case. If passenger handling staff are unable to verify the Watt-hour rating by
 checking either the battery, or the user documentation, it is recommended that the
 passenger be advised that the device cannot be carried;

Note: The watt-hour rating is calculated by multiplying the voltage (V) by the ampere hours (Ah). Where the amperage is shown as milliampere hours (mAh) divide the mAh value by 1,000 to establish the Ah.

If cabin crew identify that the device does not meet the operator's requirement during boarding, they should refer to the ground personnel for proper offloading.

It is recommended that operators restrict these devices to carry-on baggage.

However, PED as carry-on baggage are subject to specific operator restrictions on the size and weight of baggage permitted in the cabin.

You can contact the IATA Dangerous Goods Support team if you have questions or concerns that may not have been addressed in this document at: <u>dangood@iata.org</u>.

Operator Restrictions

The following operators (airlines) have implemented a total prohibition on the carriage of balance wheels, hoverboards and other self-balancing vehicles in passenger baggage.

This list is current as	at 13 January 2016
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Name	Code	Name	Code
Adria Airways	JP	Hawaiian Airlines	HA
Aegean Airlines	A3	Hong Kong Airlines	HX
Aer Lingus	EI	Iberia	IB
Aerolineas Argentinas	AR	Insel Air	71
Air Astana	KC	Japan Airlines	JL
Air Austral	UU	Jet Airways	9W
Air Berlin	AB	JetBlue	B6
Aircalin	SB	Jetstar	JQ
Air Canada	AC	KLM – Royal Dutch Airlines	KL
Air France	AF	Korean Airlines	KE
Air New Zealand	NZ	LAN Airlines Group	LA
Air Seychelles	HM	Lufthansa	LH
Air Tahiti	VT	Malaysia Airlines	MH
Air Transat	TS	Middle East Airlines	ME
Alaska Airlines	AS	Monarch	ZB
Alitalia	AZ	Oman Air	WY
All Nippon	NH	Philippine Airlines	PR
American Airlines	AA	Qantas	QF
Asiana	OZ	Qatar Airways	QR
Austrian Airlines	OS	SAS	SK
Avianca	AV	Saudi Arabian Airlines	SV
Bangkok Airways	PG	Singapore Airlines	SQ
British Airways	BA	South African Airlines	SA
Brussels Airlines	SN	Southwest Airlines	WN
Cathay Pacific	CX	Sri Lankan Airlines	UL
China Airlines	CI	Swiss International	LX
Condor	DE	TAM Airlines	JJ
Copa Airlines	CM	Thai Airways	TG
Corsair	SS	Thomas Cook	DK/HQ/MT
Croatia Airlines	OU	Thomson Airways	BY
Delta Airlines	DL	Transportes Aereos del Mercosur	
Dragonair	KA	Turkish Airlines	ТК
Easyjet	U2	United Airlines	UA
ELAI	LY	Virgin Australia	VA
Emirates	EK		
Etihad	EY		
Eva Airways	BR		
Fiji Airways	FJ		
Finnair	AY		
FlyBE	BE		
Garuda	GA		

Gulf Air

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