



香港特別行政區政府
民航處
Civil Aviation Department
The Government of the Hong Kong Special Administrative Region

Dangerous Goods Advisory Circular DGAC 1/2015

Lithium Ion Batteries Pack and Lithium Ion Polymer Batteries Pack for Electronic Equipment including Radio Controlled Model Aircraft

Watt-hour Rating

Radio controlled model aircraft are typically powered by a lithium ion batteries pack or a lithium ion polymer batteries pack. These batteries pack are classified as dangerous goods in air transport. If the energy of these batteries pack exceeds 100 Watt-hour, they will need to be declared and consigned as fully regulated Class 9 dangerous goods. The Watt-hour rating is calculated by multiplying the batteries pack's rated capacity, in ampere-hours (Ah), by its nominal voltage (V).

For example: $5000\text{mAh} \times 7.4\text{V} = 37 \text{ Watt-hour}$ (note: $1000\text{mAh} = 1\text{Ah}$)

Information for Shippers

Under the current Technical Instructions for the Safe Transport of Dangerous Goods by Air issue by the International Civil Aviation Organization, the Watt-hour rating must be clearly marked on the outside case of the batteries pack for easy identification. The shippers should pay particular attention that lithium ion batteries pack and lithium ion polymer batteries pack without the Watt-hour marking or that the Watt-hour rating is incorrectly calculated is forbidden from air transport. In addition, these batteries pack must not be sent by post under any circumstances.

Information for Air Cargo Acceptance Staff

Lithium ion batteries pack and lithium ion polymer batteries pack for radio controlled model aircraft may have an energy level higher than as permitted by Section II of the applicable packing instructions for lithium batteries. If there is any doubt about the energy level of the batteries, the cargo acceptance staffs are advised to clarify with the shipper.

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Should you have any query about this circular, please contact Safety Officers (Dangerous Goods) at 2910 6981 or 2910 6982.

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An electronic version of this circular can be downloaded at
<http://www.cad.gov.hk/english/DGAC.html>