Air travel with Li-Ion batteries for B1 and B1X



General information

The general restrictions for travelling by air with batteries is set by IATA dangerous goods regulations (IATA-DGR). The restrictions for passengers carrying a rechargeable Lithiumlon onboard depends on the Watt-hour (Wh) rating of the battery. Different restrictions also apply depending if the battery is installed in

the equipment or brought as spare (extra) battery. A general requirement for allowing a Lithium-ion battery onboard is that it is tested and certified for air transport in accordance with Part III, Sub-section 38.3 of the UN Manual of Tests and Criteria.

Lithium-Ion battery for B1 and B1X

■ Profoto Lithium-lan battery Approved for air tran CAUTION: Do not crush, heat, incinerate, short-circuit, disassem This could result in ignition, leakage, temperature increase or es injury, Read charging instructions, Use only Profoto recommend		
Model: Li-lon battery 4S2P Energy/Capacity: 44.4 Wh/3.0 Ah, Charge: 0° to 45°C Type PCA5287-0000 A7	Nominal/Charge voltage: 14. Charge current: Max 5A, Discharge: -10° to +50°C	

Type label for Type: PCA5287-0000



Type label for Model#: 100399

Important notice

Profoto Li-Ion battery for B1 (Type: PCA5287-0000) and Profoto Li-Ion battery MkII for B1 and B1X (Model#: 100399) are tested and certified for air transport in accordance with Part III, Sub-section 38.3 of the UN Manual of Tests and Criteria (see separate UN transportation certificate). Batteries installed in equipment Approval of the operator is required Permitted in or as carry-on baggage The pilot-in-command must be informed of the location Spare batteries

The Type number of the B1 battery can be found on the battery type label (see examples to the left).

Both batteries are rated less than 100Wh (44.4 and 67.7 Wh).

To the right you will find an extract of the IATA provisions for Li-Ion batteries rated less than 100Wh carried by passenger or crew for personal use.

Links to more information

http://www.iata.org/whatwedo/cargo/dgr/ Pages/dgr-guidance.aspx

Approval of the operator is required

Permitted in or as checked baggage

Permitted in or as carry-on baggage

If the battery is installed in equipment this

must be packaged so it won't accidentally turn

Spare batteries should be packed individually or battery terminals taped to prevent short circuit of batteries during the flight.

The pilot-in-command must be

informed of the location

Additional notes

on during the flight.

http://www.iata.org/whatwedo/cargo/dgr/ Documents/passengerprovisions-table-23Aen.pdf

http://www.iata.org/whatwedo/cargo/dgr/ Documents/passengerlithium-battery.pdf

UN transportation certificates

Transportation certificate for Type PCA5287-0000 on page 2 in this document. Transportation certificate for Model#100399 on page 3 in this document.



No

Yes

Yes

No

No

No

Yes

No

Batteries that are damaged or defect or batteries that are suspected to be damaged or defect, are strictly forbidden to transport by air. Such batteries can only be transported by road or sea and only in full compliance with applicable dangerous goods regulations. (Special Provision A154, IATA-DGR & ICAO-TI)

Damaged batteries



TRANSPORTATION CERTIFICATE

This is to certify that the Celltech Abatel battery pack, described below has successfully passed the prevailing transporation tests, as per the test procedures of Part III, Sub-section 38.3 of the UN Manual of Tests and Criteria.

Product description:

Battery type:	Lithium Ion Rechargeable Battery
Brand label:	Profoto
Profoto type no:	PCA5287-0000
Celltech Abatel type no:	365-6680 AB42H B1
Nominal voltage:	14.8V
Rated Capacity:	Cell capacity 1.5Ah, pack capacity 3.0Ah
Energy density:	Cell energy density 316Wh/L, pack energy density 44.4Wh

Test item and conclusion:

1.	Altitude simulation:	PASS
2.	Thermal test:	PASS
3.	Vibration:	PASS
4.	Shock:	PASS
5.	External short circuit:	PASS
6.	Impact:	PASS
7.	Overcharge:	PASS
8.	Forced discharge:	PASS

Celltech Abatel internal reference test report # H08303015621D-1, H08303015721D-1

All test recoreds are maintained on file at Celltech Abatel AB, Sweden and can be submitted on specific request.

Sincerely,

City and date

Authorized signature

Title, position

Stockholm, 7th June 2016

Jesper Björkén

Managing Director



TRANSPORTATION CERTIFICATE

This is to certify that the Celltech battery pack, described below has successfully passed the prevailing transportation tests, as per the test procedures of Part III, Sub-section 38.3 of the UN Manual of Tests and Criteria.

Product description

Battery type:	Lithium Ion Rechargeable Battery
Brand Label:	Profoto
Profoto model #:	100399
Celltech type no:	365-6683
Nominal voltage:	14.4V
Rated Capacity:	Cell capacity 2.5Ah, pack capacity 4,7Ah (4S2P) nominal
Energy density:	67,7 Wh

Test item and conclusion

1. Altitude simulation:	PASS
2. Thermal test:	PASS
3. Vibration:	PASS
4. Shock:	PASS
5. External short circuit:	PASS
6. Impact:	PASS
7. Overcharge:	PASS
8. Forced discharge:	PASS

Test reports from South China national center of metrology Guangdong Institute of metrology DW2017-02087, 02088 and -02089.

All test records are maintained on file at CelltechAbatel AB, Sweden and can be submitted on specific request.

Sincerely,

City and date

Authorized signature

Title, position

Managing Director

Stockholm, 23rd of May 2017

Jesper Björkén

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