

CMP BATTERIES STANDBY DIVISION



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Fax Transmission

To: _____ **From:** Mike Carrington.
Company: Farnell **Pages:** 2
Fax: 0113 279 4279 **Date:** 28 January 1999
Re: Lithium Transport LTN-065-18-a **CC:** _____

European and world-wide carrier organisations classify lithium batteries in two categories, non-restricted and restricted. Lithium batteries falling into the non-restricted category can be shipped via any carrier without special requirements.

Lithium batteries are non-restricted if they meet the following requirements.

- Each cell contains no more than 0.5 g of lithium or lithium alloy.
- Each battery pack contains an aggregate quantity of no more than 1 g of lithium or lithium alloy
- Each cell is hermetically sealed
- Batteries are separated from each other in the pack so as to prevent shorting
- Batteries are packed in strong outside packaging (except when installed in electronic devices).

Table 1 indicates the Sonnenschein Lithium Battery models that belong to this category. Lithium Batteries that belong to the restricted category require special care during transportation. The requirements are shown Table 2.

Size	Non-Restricted Types				Restricted Types
Flat cells					
BEL	SL-340				
1/6D	SL-386				
1/10D	SL-389				
Small Cells					
½ AA	SL-350	SL-550	SL-750	SL2350	
2/3 AA	SL-361	SL-561	SL-761	SL2361	
AA	SL-360	SL-560	SL-760	SL2360	
Big Cells					
C			SL-770	SL2770	
D			SL780	SL2780	
DD					SL-790
Computer Batteries					
Computer-Battery	SL-360/461				
Computer-Battery	SL-360/486				

Table 1

Correlation between Sonnenschein Lithium Batteries, and transport categories.

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Class	Limitations and Instructions	Passenger aircraft IATA DGR	Cargo aircraft IATA DGR	Road/Railway transport ADR/RID	Sea Transport IMDG Code
Lithium Batteries UN No. 3090, Class 9	Maximum amount of lithium per cell Maximum amount of lithium per battery pack Maximum amount of lithium per inner packaging Maximum gross weight per package Packing group Packing Instruction Marking	Forbidden	12 g 500 g 500 g	12 g 500 g 500 g	12 g 500 g 500 g
Lithium Batteries contained in equipment UN No. 3091, Class 9	Maximum amount of lithium per cell Maximum amount of lithium per battery pack Maximum amount of lithium per any piece of equipment Maximum gross weight per package Packing group Packing Instruction Marking	3 g 125 g 5 kg	12 g 500 g 5 kg	12 g 500 g 100 kg II	12 g 500 g max. 10 batts 250 kg II
		II 912 Hazard Label	II 912 Hazard Label	II II Hazard Label	II II Hazard Label

Table 2.

Transport regulations for lithium batteries falling into the restricted category as per table 1:

Cells containing more than 0.5 g of lithium and battery packs containing more than 1 g of Lithium.

Packaging instruction and lithium contents are available from Sonnenschein Lithium upon request.

The applicable documents are:

ADR: European Agreement concerning the international Carriage of Dangerous Good. by Road

IATA DGR: International Air Transport Association, Dangerous Goods Regulations, 38th Edition, 1 January 1995.

IMDG Code: International Maritime Dangerous Goods Code

RID: International Statutory Order on the Conveyance of Dangerous Goods by Rail

UN: United Nations Recommendations on the Transport of Dangerous Goods, Tests and Criteria.

Mgc/lithium/065-18-a