

# LOGICcell

## NOTES FOR TRANSPORTATION

### 1. ABOUT THIS DOCUMENT

The LOGICcell is a rechargeable Battery Pack for Height-Adjustable Table Systems. It contains a lithium-ion (L-ion) battery. The cell used in the LOGICcell is the INR18650 M26. The LOGICcell has a capacity of less than 100 Wh.

The transportation of L-ion batteries is strictly regulated by a number of governmental bodies and subject to a variety of standards and regulations at a national and international level. This document is a summary of, not a replacement for these standards, which alongside the product documentation for the LOGICcell must be read in their entirety to ensure compliance and the safety of all persons.

### 2. APPLICABLE STANDARDS AND REGULATIONS

The LOGICcell has been tested according to the following standards and regulations that are relevant to the transportation of L-ion batteries:


- Batteries directive 2006/66/EC
- UL 2054 Standard for Household and Commercial Batteries
- UN-T 38.3 Transportation Testing For Lithium Batteries
- UN3480 Lithium-ion Batteries

### 3. RELEVANT REGULATORY BODIES

Regulations for transporting L-ion batteries are set for road transport (**ADR**), rail transport (**RID**), air transport (**IATA**), and sea transport (**IMDG**).

### 4. REQUIREMENTS FOR ROAD, RAIL, AND SEA FREIGHT

The LOGICcell has a capacity of less than 100 Wh. This means that when transported by road or rail, the LOGICcell is subject to **ADR/RID SP188**. When transported by sea, the LOGICcell is subject to IMDG Code **SP188**.

Packaging Instructions	ADR/RID SP188, IMDG Code SP188
Packaging Requirements	Batteries must be placed in inner packagings that completely enclose the battery Batteries must be protected so as to prevent short circuits Strong outer packaging is required (fibreglass box)
Weight Limit	30 kg gross weight (per package)
Documents required for transportation	IATA Shipper's Declaration of Dangerous Goods
Other information	Personnel must be trained according to the relevant ADR/RID/IMDG requirements
Labelling	UN3480 Lithium Battery Mark 

#### Contact Headquarters




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## 5. REQUIREMENTS FOR AIR FREIGHT

The LOGICcell has a capacity of less than 100 Wh. When transported by air freight, the LOGICcell is subject to IATA regulations. The information in the table below assumes that the consignment is subject to **IATA PI965 Section IB**. This means that there will be 2 or more LOGICcells contained in each package, and more than 1 package containing LOGICcells per consignment. For consignments below this limit, refer to **IATA PI965 Section II**.

<b>Packaging Instructions</b>	<b>IATA PI965 Section IB</b>
<b>Packaging Requirements</b>	Batteries must be placed in inner packaging that completely encloses the battery Batteries must be protected to prevent short circuits Batteries must be secured against movement within the outer packaging Strong outer packaging is required (fibreboard box)
<b>Weight Limit</b>	10 kg battery weight (per package)
<b>Documents required for transportation</b>	IATA Shipper's Declaration of Dangerous Goods
<b>Information required on the air waybill (AWB)</b>	Under "Handling Information": <b>"Dangerous Goods as per Shipper's Declaration. CAO"</b>
<b>Other information</b>	Transportation forbidden on passenger aircraft (CAO) State of charge may not exceed 30% Official IATA training by an IATA-authorized trainer is required for all handlers
<b>Labelling</b>	UN3480 Lithium Battery Mark   Hazard Label No 9A   Cargo Aircraft Only Label    

## 6. TRANSPORTATION FOR DAMAGED L-ION BATTERIES

The transportation of damaged L-ion batteries is subject to Special Provision 376 of the **ADR/RID/IMDG SP188**. Damaged batteries cannot be transported by Air Freight. SP 376 differentiates "damaged" and "critically damaged" batteries. **Damaged Products** are defined as: Cells or batteries identified as being defective for safety reasons, cells or batteries that have leaked or vented, cells or batteries that cannot be diagnosed prior to carriage, or cells or batteries that have sustained physical or mechanical damage.

<b>Packaging Instructions</b>	<b>SP 376, P908</b>
<b>Packaging Requirements</b>	Batteries must be packed separately in leak proof inner packaging UN approved packaging required for all battery types (PackingGroup II) Batteries must be secured against movement within the package Sealed packaging shall be fitted with a venting device Batteries must be packed with non-combustible, non-conductive thermal insulation material, material class A1 or A2, as well as absorbant material to absorb leaking electrolyte Batteries must be protected to prevent short circuits
<b>Documents required for transportation</b>	Address of the shipper and consignee Number of packages and packaging type Battery weight (kg)
<b>Labelling</b>	Hazard Label No 9A   <b>DAMAGED/DEFECTIVE LITHIUM-ION BATTERIES</b>  

**"Critically" Damaged Products** are defined as: Cells and batteries liable to rapidly disassemble, dangerously react, produce a flame or a dangerous evolution of heat or a dangerous emission of toxic, corrosive or flammable gases or vapours under normal conditions of carriage. Critically damaged batteries may only be transported with approval from the competent authority. Packages shall be marked **"DAMAGED/DEFECTIVE LITHIUM-ION BATTERIES"**.