



Product Safety Sheet for Lithium-Ion Batteries under 100Wh

| Product Data | |
|----------------|---|
| Trade Name: | Lithium Ion Battery 7.2V for GEPARD SE/EM |
| Product ID: | 85091021 |
| Manufacturer: | SONY QN-O11BP or CONNECT 3000 |
| Distribution: | RAYTEC SYSTEMS AG Triststrasse 8 CH-7007 Chur T: +41 81 2570505 / F: +41 81 2570509 support@raytec.com / www.raytec.com |
| Product use: | Rechargeable battery for GEPARD measuring devices. Only for use with RAYTEC battery devices. |
| Technical data | <ul style="list-style-type: none">• Nominal voltage: 7.2 VDC• Nominal capacity: 1350 – 1600 mAh• Nominal energy: 9.72 – 11.84 Wh• Usage and storage temperature: -10°C to +50°C• Dimensions: 70 x 38 x 20 mm• Weight: 0.100 kg |

| Safety Information |
|---|
| <p>WARNING</p> <ul style="list-style-type: none">▶ Do not open, damage or drop the battery.▶ Protect the battery from short circuits – explosion risk!▶ Protect the battery from rain, do not immerse in liquids – short circuit risk!▶ When not in use protect the battery from direct sunlight.▶ Protect the battery from fire and excessive heat.▶ Never throw the battery into a fire – explosion risk!▶ Do not charge or use a damaged, defective or deformed battery.▶ Only use the battery with RAYTEC devices and only charge or discharge with original chargers. The battery must not be used for other purposes – accident risk! |
| <p>Hazards</p> <ul style="list-style-type: none">▶ Do not open, damage or drop the battery.▶ If damaged caustic liquids may leak out. Avoid contact.▶ Contact may cause skin irritations, burning and cauterisation (acid burns).▶ Seek medical assistance if liquids come in contact with eyes.▶ Do not breathe in any existing or released fumes – caustic. |



First Aid Measures:

If electrolyte or its fumes leak out proceed as follows:

- **Eye:** Flush eyes with plenty of clean water for at least 15 minutes. Do not rub the eyes, and seek medical assistance.
- **Skin:** Wash the skin areas concerned with plenty of water and soap. If irritation continues, seek medical assistance.
- **Inhalation:** If inhaled, remove to fresh air or give oxygen and consult a physician.
- **Ingestion:** If swallowed, consult a physician immediately.

- **Removal:** Protective glasses, alkali-resistant gloves and if applicable solvent-resistant protective clothing. Wipe with a dry, absorbent cloth and dispose of as hazardous waste separately from other waste at hazardous waste collection points and in accordance with national regulations.

- **Fire:** In addition to any occurring fumes and gases, monitor the wind direction. When possible without incurring danger, remove the batteries from the fire area. Cooling or extinguishing with water is possible in principle, but this should only be carried out by trained staff and with sufficiently big water quantities. If risk situation is unclear only extinguish with ABC powder extinguisher (particularly suitable are metal fire extinguishers, fire class D). If fire fighting only approach the fire with protective clothing and self-contained breathing apparatus. Once the fire has been successfully extinguished as a rule the area should be monitored (fire guard) and cleared by trained staff, appropriately equipped. Fire residues are to be duly secured and disposed of.

- **Doctor Info:** Hazard-inducing substances are: basic, caustic electrolytes contained in the cells (Li-salt in organic solvent) with Li, Ni and Co/LiMn oxide cathode, but no Lithium metal or Lithium alloys.

Handling

Attention!

- ▶ Incorrect handling and use for purposes other than those described can lead to the battery exploding or catching fire.
- ▶ Never short circuit the battery.
- ▶ Store the battery outside the reach of children.
- ▶ Contact RAYTEC for the maintenance or repair of batteries and their chargers.
- ▶ If substances escape due to damage or inappropriate handling, then these instructions must be followed as mandatory (use of personal protective equipment, etc.)



Storage

- Only insert the battery in the device when it is to be used.
- Always remove the battery from the device during transportation and when not in use.
- Store at room temperature in a dry environment.
- relative humidity Air humidity range: 40% to 80%
- Optimum conditions to preserve functionality: +10°C to +20°C at charge state of around 30%

Recycling / Disposal



- In accordance with the Battery Directive manufacturers assume the financing of the collection, handling and recycling of batteries. In this context storage batteries must be disposed of through the registration systems set up by national legislation. Disposal in municipal waste is not permitted. This is symbolised by the crossed-out waste bin symbol. Collections must be separated by battery type.
- Return your battery free of charge to your RAYTEC dealer for disposal or hand it to an appropriate public collection site.
- **IMPORTANT:**
Only discharged batteries with no voltage on the external contacts can be returned. If they are only partially discharged, they must be returned protected against short-circuit (mask the contacts, stable cardboard packaging, original packaging is ideal).



Transport Road / Rail / Air (ADR / RID / IMDG / IATA)

Transport always in accordance with hazardous goods regulations:

It is recommended not to transport lithium batteries connected to devices (lithium-ion batteries in equipment).

Batteries must always be secured against short circuit during transportation. For the transportation of a damaged or defective battery, specific transport instructions are to be observed. It is essential that you contact the RAYTEC specialist dealer before transportation – risk of accident! It is forbidden in principle to transport defective or damaged batteries by air.

Road / Rail / Sea Transport (Tunnel code specified in brackets only for Road)

| | | |
|------------------------------|---------|--|
| Battery (only) | UN 3480 | Lithium-Ion batteries, 9, II, (E) |
| Battery (packed with device) | UN 3481 | Lithium-Ion batteries, packed with equipment, 9, II, (E) |
| Packaging Regulation | P903 | |
| Exemptions | E0 | not possible |
| | LQ0 | not possible |

Alternatively with exemption from other hazardous goods regulations:

Road / Rail / Sea Transport

Transportation according to special regulation SV 188

Air Transport

Transportation according to P965 Part II (pure batteries)
P966 Part II (packed with equipment)

In addition to the regulations and exceptions stated here, other national regulations and exceptions may exist due to the national adoption of multilateral agreements. These must be complied with.

Miscellaneous

- The battery contains no PCB or PAH compounds in the casing. The electric components used comply with RoHS Requirements (Directive 2011/65/EC of 8 June 2011 and Directive 2002/95/EC of 27.1.2003) (no Hg, Cd, Pb, Cr, PBB and PBDE).
- The information supplied on this data sheet does not contain guaranteed product features, but information for the user. It was compiled to the best of our knowledge based on currently applicable legislation.
- The REACH Regulation (1907/2006/EC) replaced EU Directive on Safety Data Sheets (91/155/EU). Both the now valid REACH Regulation and the no longer applicable Directive require the creation and updating of safety data sheets for substances and preparations. For products – such as lithium batteries – no EU safety data sheets in accordance with European Chemicals Legislation are required.

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