

# LRP XTEC RACE PACKS



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## ULTRA PERFORMANCE NiMH RACE PACKS

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### DEAR CUSTOMER,

thank you for your trust in this LRP product. By purchasing a LRP XTEC Race Pack battery, you have chosen a high-performance battery for your RC model. Please read the following instructions to ensure, that your LRP XTEC Race Pack battery always works up to your full satisfaction.

NiMH-batteries need special treatment and care. Please read the following instructions carefully before you start using your LRP XTEC Race Pack battery. This user guide contains important notes for the installation, the safety, the use and the maintenance of this product. Thus protecting yourself and avoid damages of the product.

Proceed according to the user guide in order to understand your LRP XTEC Race Pack battery better. Please take your time as you will have much more joy with your product if you know it exactly.

**This user manual shall be kept in a safe place. If another customer is using this product, this manual has to be handed out together with it.**

### 1. CHARGING

We generally recommend a maximum charge current of 1C\* and chargers, which are suited for NiMH batteries. Our chargers Pulsar Touch (No. 41556) and Quadra Competition V1 (No. 41420) are perfect for this application. Make sure not to overcharge your battery pack.

Charge up to a maximum cell temperature of 42°C, when you are using a temperature cut-off charger. Use the Delta-Peak function of your charger if available.

**IMPORTANT:** ALWAYS use the NiMH - setting of your charger for charging the NiMH packs. DO not use a LiPo - setting for charging.

We recommend the following settings, if you are using a LRP charger:

Battery Pack	Type	Number of cells	Charge current	Delta Peak (Pack)	Trickle	Mode
LRP XTEC Race Packs 7.2V	2/3A NiMH	6	1C*	15mV	OFF	LIN(EAR)

**Please note:** You can use your LRP XTEC Race Pack battery 3 times a day. However be sure, that the battery has completely cooled down to ambient temperature, before re-charging it again.

\* C=Nominal capacity of the battery. E.g. with a nominal capacity of 1600mAh (1.6Ah), the battery can be charged with a max. current of 1.6A.

### 2. DISCHARGING

NiMH batteries should never be stored completely empty. Always pay special attention, that your battery is not completely discharged. Even if you use the battery once a week, the battery should never be stored completely empty. Be sure to also check the information, which is given in the section „Storage“.

Pay attention, that the battery pack has cooled down completely before beginning the charge.

LRP XTEC Race Packs are high-performance cells, manufactured with the newest technology available. Discharging each cell below 1V over a longer period of time harms the battery and reduces the capacity.

**IMPORTANT:** Do not dead-short or deep-discharge the XTEC cells to 0V. This will immediately damage the cells irreversibly.

### 3. SPECIAL NOTES FOR HANDLING

- Avoid short-circuits! Short-circuiting the battery results in very high currents, which damage the internal structure of a NiMH-battery. This leads to a loss of power and capacity.
- Never charge several NiMH-battery packs at once with one charger. The different capacities and charge levels can lead to serious overcharging of the battery, even if you are using a charger with NiMH capabilities.
- Damaged packs cannot be used any longer. If the packs show signs of damage, are bent or similar, do not use the packs anymore.
- The chemical reaction during charging and discharging a NiMH-battery is not fully reversible. Due to that, NiMH-batteries loose capacity during their life-span. This is normal and neither a manufacturing nor production fault.

**Disposal note:** Damaged packs or packs, which can no longer be used are hazardous waste and have to be disposed of accordingly.

### 4. STORAGE

If you are not using your battery pack for several days/weeks, under no circumstances it shall be stored fully discharged. Storing of fully discharged NiMH batteries even for just a few days immediately damages the cells.

We recommend to only store your NiMH battery packs with some capacity left in them. A common way to do this is to partially charge the empty battery with 1C for 25 minutes. You can then store the pack for at least 4 weeks at a temperature of 20°C without problems. Store the battery preferably in a cool place.

**Attention:** Storing NiMH batteries at higher temperatures increases the self-discharge rate of the batteries. Therefore you have to recharge the battery more often when storing it at higher temperatures.

After a long storage period, the battery pack has to be discharged with 5A to a cut-off voltage of 5.4V (6 cells). Pay attention, that the battery pack has cooled down completely before beginning the charge.

### REPAIR PROCEDURES / LIMITED WARRANTY

All products from LRP electronic GmbH (hereinafter called "LRP") are manufactured according to the highest quality standards. LRP guarantees this product to be free from defects in materials or workmanship for 90 days (non-european countris only) from the original date of purchase verified by sales receipt. This limited warranty doesn't cover defects, which are a result of misuse, improper maintenance, outside interference or mechanical damage.

This especially applies on already used batteries or batteries, which show signs of heavy usage. Damages or output losses due to improper handling and/or overload are not a product fault. Signs of wear (loss of capacity) after intensive usage are also no product fault.

The following points do also result in a service fee: Original power plugs replaced with a NON reverse polarity protected power plug system (Stickpacks). Use of a non reverse polarity protected power plug system (Competition batteries). Send in the battery without power plugs. Removed or damaged original heatshrink.

To eliminate all other possibilities or improper handling, first check all other components in your model and the trouble shooting guide, if available, before you send in this product for repair. If products are sent in for repair, which do operate perfectly, we have to charge a service fee according to our pricelist.

With sending in this product, the customer has to advise LRP if the product should be repaired in either case. If there is neither a warranty nor guarantee claim, the inspection of the product and the repairs, if necessary, in either case will be charged with a fee at the customers expense according to our price list. A proof of purchase including date of purchase needs to be included. Otherwise, no warranty can be granted. For quick repair- and return service, add your address and detailed description of the malfunction.

If LRP no longer manufactures a returned defective product and we are unable to service it, we shall provide you with a product that has at least the same value from one of the successor series.

The specifications like weight, size and others should be seen as guide values. Due to ongoing technical improvements, which are done in the interest of the product, LRP does not take any responsibility for the accuracy of these specs.

LRP-Distributor-Service: - check [www.lrp.cc](http://www.lrp.cc)





