



NUPROL POWER LIPO INSTRUCTIONS

Thank you for choosing NUPROL POWER, before using the product, please read and follow the below instructions and safety precautions carefully.

STATEMENT

Users should contact the shop in which the product was purchased from first if they need to use the battery in the circumstances which are not stipulated in the documents, because we need to conduct specific test to verify the performance and security of the battery under that very condition. Otherwise, NUPROL POWER and his distributors/dealers will assume no liability for failures to comply with these instructions and safety precautions.

IMPORTANT

Always use a charging bag (Nuprol No: 8075) when charging any battery! Improper charging method of batteries can result in fire and or serious injury

CHARGE

1.1 First charge

When you receive the battery, please do not use it directly, fully charge it first with a LiPo balance-charger.

1.2 Charger

Only use a LiPo balance-charger to charge the battery. Other types of charger must not be used. ENSURE THAT THE BALANCE LEAD IS PLUGGED IN. Failure to do so can result in a battery fire.

1.3 Charging Current

Never charge batteries with a current over the maximum charging current. This will generally be between 1-2C, never more than 5C. Higher setting may lead to charging insufficiency, inferior in performance, heating and even leakage. Always try to charge you battery on a lower setting for optimum performance and battery life.

1.4 Cell Voltage

Cell Voltage should not go beyond the maximum voltage of 4.20V. As for battery pack in series, please choose balance charging or charge each cell respectively. Series charging is not recommended. If the cell voltage is too high or you choose series charging, over-charge may occur. All of these may result in battery swelling, heating or even leakage, severely deteriorating the batteries' performance and cycle life.

1.5 Charging Temperature

Batteries must be charged at a place within the temperature range of 15°C to 35°C, or it may lead to the reduction of charging & discharging efficiency.

1.6 Reverse charging is prohibited

Please correctly connect the positive (+) and negative (-) electrode of the battery, and strictly avoid reverse charging. Reversing the polarity will damage the battery. Reverse charging will reduce the charging & discharging performance and security of the battery, and could even result in heating or leakage.

1.7 Disposal of abnormal phenomena while charging

If there's any abnormal condition during the charging process, please discontinue the charging process immediately, disconnect the battery and consult relevant professionals for disposal.





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USAGE

2.1 Checking voltage

If you use battery packs, please check the voltage of the pack before using. The voltage difference between any two cells should not be too big. If the voltage difference of two cells is too big, the one with lower voltage may over-discharge while in use, causing battery swelling, heating, and finally deteriorating the batteries' performance and shortening their cycle life.

2.2 Discharging current

Never discharge batteries with current over the designed maximum continuous discharging current which was regulated in relevant specifications, or the battery's performance may be deteriorated and cycle life be shortened, causing overheating and even swelling, breakage, internal short-circuit, etc.

2.3 Discharging temperature

If the surface temperature exceeds 65c while functioning, the you should stop using it until it cools down to ambient temperature naturally. Higher temperature may result in battery swelling and performance deterioration. Always check the battery voltage before using it.

2.4 Cut-off Voltage

Please make sure the cut-off voltage is not lower than 3.5V, and otherwise the battery's performance may be severely affected because of over-discharging.

STORAGE & TRANSPORTATION

3.1 Transportation

Please avoid severe vibration, shocks, extrusions and high temperature while transporting the battery, and please do take care while carrying them. All batteries should be packed by soft materials for protection, ideally in a fireproof container.

3.2 Long-term storage

If storing for a long time, batteries must be stored at about 3.8V/cell (approximately 50% charged)/ in the semi-electric status (about 3.8V). Do regularly charge & discharge them for maintenance (about 1-3 times every 3 months).

3.3 Storage Environment

Do store batteries at a place with low-humidity and free from corrosive gas within the temperature ranged from -20°C-35°C.

ADDITIONAL NOTES

4.1 Crashing, hitting and bending batteries is prohibited. Protect them from sharp objects.

4.2 Under any circumstances disassembly of batteries is prohibited.

4.3 Do not short-circuit batteries by directly connecting the positive and negative electrodes, or batteries may be severely damaged, or even cause a fire.

4.4 Do not throw batteries into a fire, otherwise an explosion may occur.

4.5 Do not Soak batteries in liquid, such as fresh water, sea water and beverages (i.e. juice, coffee) etc.

4.6 Individual cells must not be replaced.

4.7 The use of damaged batteries is prohibited. Batteries may be damaged by hitting during their transportation. If there are any abnormal features, such as the damage of battery's seal edge, breakage of hard case, or emitting electrolyte flavor, these batteries are not allowed to use again. Any battery with electrolyte leakage or emitting electrolyte flavor should be kept far away from flammable/combustible materials to avoid fire disaster.

4.8 If there's any question while using, please contact relevant professionals for disposal.

4.9 Used or damaged batteries shouldn't be discarded at random, but should be handed to specific Hazardous Waste Facility for disposal.

