

# LiPO BALANCE CHARGER

2-3 Cell



**ATOMIK RC**

atomik-rc.com



## FEATURES:

- Charges LiPO Specific Battery Packs
- Charges Each Cell Individually for Optimum Performance
- AC/DC Field Ready Charger
- Will Charge 2 Cell and 3 Cell Single Packs
- Intuitive LEDs Indicate Status of Batteries
- Wall Plug Power Supply Included

## SPECIFICATIONS:

**INPUT:** 110-240V AC  
10.0-15.0V DC  
**OUTPUT:** 0.8 A  
2-3Cell LiPO  
(7.4V or 11.1V)

**DIMENSION:** 68x46x21mm  
**WEIGHT:** 200g  
**CELL COUNT RANGE:** 2-3 cells  
**MAX. CHARGE CURRENT:** 800mAh  
**OPERATIONAL MODE DISPLAY:** VIA 3 LEDs

***Thank you*** for purchasing the 2-3 cell LiPO Balance Charger™. While this charger is simple to use, please read these instructions thoroughly and carefully to avoid accidents and potential hazards. If you have any questions, please feel free to contact us at our website [www.atomik-rc.com](http://www.atomik-rc.com) or contact your local hobby shop. Both are excellent resources for information and are more than willing to help new hobbyists. Remember to keep your receipts if you should need warranty service on any of our products.



## **WARNING!**

Charging and discharging batteries has the potential for fire, serious injury to persons and damage to property. The user of this charger agrees to accept responsibility for all such risks. Atomik RC®, its affiliates, manufacturers, distributors, and retail partners cannot control the use, application, charging or installation of this product and shall not be held responsible for any accident, injury to persons, or damage to property resulting from the use of this product.

### **REFER TO THE LIPO SAFETY GUIDELINES IN THESE INSTRUCTIONS FOR MORE INFORMATION.**

Always use a charger specifically designed for LiPO batteries. **ONLY** charge 2 - 3 Cell LiPO Batteries with this charger or a LiPO Charger that has Peak Voltage Detection. Never use NiCD or NiMH type chargers to charge LiPO batteries. Failure to do so will damage the batteries and may cause fire and personal injury. Read all Safety Guidelines, and Charging Instructions before using batteries. Store battery packs out of the reach of children and pets. Children under the age of 18 must be supervised by a responsible adult.

## CHARGING INSTRUCTIONS:

- 1) Plug the power cord into the LiPO Balance Charger and then into a wall outlet.
- 2) All three Cell indicator LED's will illuminate green indicating power is applied and is ready to charge.
- 3) Plug a LiPO battery into the correct charging port on the charger. For example, a 2-cell pack must be inserted into the 2-cell slot. The cell indicator LEDs will change from Green to Red indicating that the battery is charging.
- 4) When charging is complete, the LEDs will change from Red to Green. Charge times will vary depending on the capacity of the battery and if there is already a partial charge on the battery. Refer to the chart on the next page for approximate charge times for a variety of capacities of batteries. Time estimates are based on a battery discharged to 3.0V per cell.

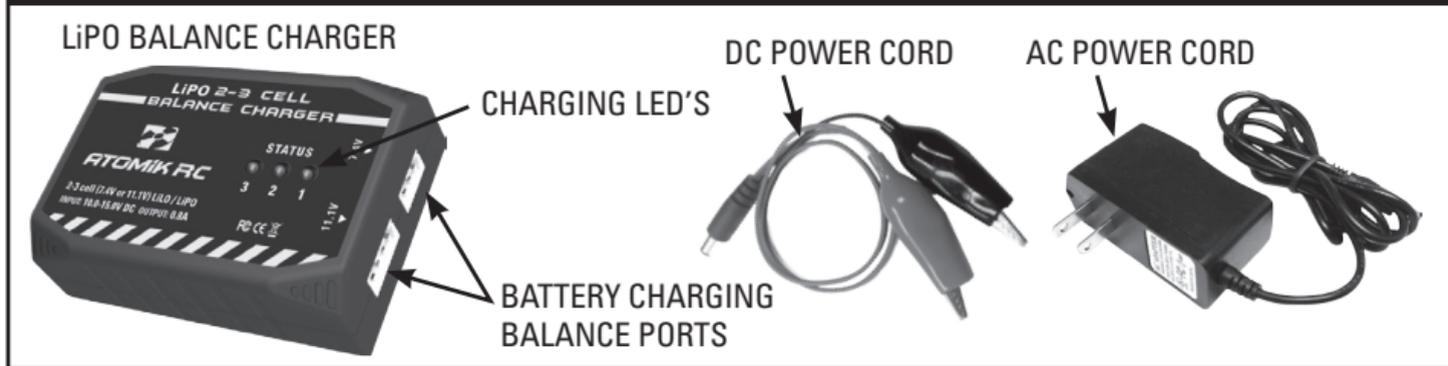


- 5) If the battery gets warm or hot during charging, immediately disconnect the battery, set it on a non-flammable surface and allow it to cool down. During the cool down period, monitor the pack for any signs of swelling or ballooning indicating a damaged battery. Do not attempt to charge a damaged battery.

#### **APPROXIMATE CHARGE TIMES FOR 2-3 CELL LIPO BATTERIES**

(15000)	5C 2400 mah 7.4v 2-cell LiPO RX	(approx. 3 hour)
(15003)	20C 800mah 7.4v 2-cell LiPO	(approx. 1 hour)
(15005)	13C 1320mah 7.4v 2-cell LiPO	(approx. 1.6 hour)
(15023)	20C 2000mah 7.4v 2 Cell LiPO	(approx. 2.5 hour)
(15024)	20C 1300mah 11.1v 3 Cell LiPO	(approx. 1.6 hour)
(1577)	20C 2100mah 11.1v 3-Cell LiPO	(approx. 2.6 hour)

## PROPER CONNECTION & LED INDICATORS:



## LiPO BATTERY SAFETY GUIDELINES

1. Always use a charger specifically designed for Lithium Polymer batteries. Never use NiCD or NiMH type chargers to charge LiPO batteries. Doing so will damage the batteries and may cause fire and personal injury.



2. Always charge batteries in a fire proof container, in the open and away from flammable materials. Do not charge batteries on or near wood, cloth, carpet, in your model, or on or near any other flammable material. Keep a chemical fire extinguisher nearby in case of fire.
3. **Never leave batteries unattended while charging.** Always observe batteries when charging so that you may react quickly to any problems that may occur.
4. LiPO cells feature a separate balancing plug that isolates each cell in a pack and charges it independently. This ensures that all cells peak equally and discharge at the same rate during use, preventing one or more cells from discharging past their safe low voltage cut off rating. The balancing plug can be identified by the multi wire JST XH plug.
5. Charge each battery pack individually. Never charge battery packs in series. Charging packs in series may result in improper charger cell recognition and an improper charging rate that may lead to overcharging, cell damage and fire.

## **LiPO BATTERY SAFETY GUIDELINES (CONTINUED)**

6. Always check to make sure that your charger settings match those listed on the battery pack label. Refer to the battery label for the proper cell count and charging amperage setting. Selecting a cell count or amperage charge rate other than the one listed on the battery pack will damage the battery and may cause a fire.
7. Make sure the battery connections are connected in the correct polarity for your specific model. A wrong connection will damage the battery, may cause a fire and void all warranties.
8. Always check battery pack voltage before charging. Do not discharge LiPO batteries below 3.0 Volts per cell. The voltage of a typical LiPO cell at rest is 3.7 Volts. If the battery pack appears swollen or damaged, DO NOT attempt to charge it.



9. Do not charge at over 1C current.  $C = \text{battery pack mah capacity} \div 1000$ . Divide the battery mah capacity by 1000 to determine the proper charge rate. Example:  
 $1200\text{mah} \div 1000 = 1.20$  Amps Charge Rate for LiPO Battery Packs,  
example:
  - a. 800mah Capacity = 0.80 Amps
  - b. 1200mah Capacity = 1.20 Amps
  - c. 2000mah Capacity = 2.00 Amps
  
10. Do not peak charge to more than 4.2 Volts per cell. Example: A 2S Battery Pack contains two cells, therefore the peak voltage should not exceed 8.4 Volts.
  
11. Battery Temperature is critical. For optimum performance in cold climates, warm the pack to 100F°/ 37C° before use. Please use the following guidelines:
  - a. Charge Temp Range: 32 - 110F° / 0-43C°
  - b. Discharge Temp Range: 32 - 140F° / 0-60C°
  - c. Storage Temp Range: 40 - 80F° / 4-26C°

## **LIPO BATTERY SAFETY GUIDELINES (CONTINUED)**

12. Never discharge a LiPO battery pack at more than the manufacturers recommended discharge rate. The discharge rate is: Battery pack capacity (mah)  $\div$  1000 x Pack C rating  
Example for 15c packs:  $(3200 \text{ mah} \div 1000) \times 15\text{c} = 48 \text{ Amps}$   
Example for 20c packs:  $(2100 \text{ mah} \div 1000) \times 20\text{c} = 42 \text{ Amps}$
  
13. Any time you have an accident with your battery, if the battery swells "balloons" or if the battery exceeds temperature guidelines, follow these safety steps:
  - a. Immediately remove the battery pack from your model or charger.
  - b. Place the battery in a non-flammable, well ventilated area.
  - c. Observe the battery for 30 minutes from a safe distance.
  - d. After 30 minutes, if the pack appears stable, is not swollen and does not show any signs of damage, return the battery pack to normal use with caution.



14. If a battery is deformed, swollen or appears damaged, DO NOT CHARGE, DISCHARGE or USE IN ANY WAY. Please contact the battery manufacturer for further instructions.

**WARNING: CHARGING OR DISCHARGING A DEFORMED, SWOLLEN OR DAMAGED BATTERY WILL INCREASE THE RISK OF FIRE AND/OR PERSONAL INJURY.**

## GENERAL WARRANTY POLICIES

Atomik RC® warrants this product to be free of material and workmanship defects when new. Atomik RC® will at its sole discretion repair or replace defective components free of charge within 90 days from date of purchase or within 30 days for all electronic components. This warranty does not cover wear and tear, crash damage, modifications, failure to perform routine maintenance, or any damages arising as a result of improper use. For Customer Service issues and the quickest warranty service please visit [www.atomik-rc.com](http://www.atomik-rc.com).

## IMPORTANT NOTICE

Atomik RC® assumes sole responsibility for our products; therefore, dealers should not be involved in any warranty issues. All warranty claims are to be directed to Atomik RC® Customer Service at [www.atomik-rc.com](http://www.atomik-rc.com). Before returning any defective product, please contact Atomik RC® Customer Service at [www.atomik-rc.com](http://www.atomik-rc.com) to receive a Return Merchandise Authorization Number. A dated & itemized sales receipt must accompany any product returned for warranty work.

This product contains chemicals known to the State of California to cause Cancer, Birth Defects and other Reproductive Harm. Be responsible, dispose of properly.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

## WARNING

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**Customer Service**  
For Customer Service issues  
and the quickest warranty service  
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