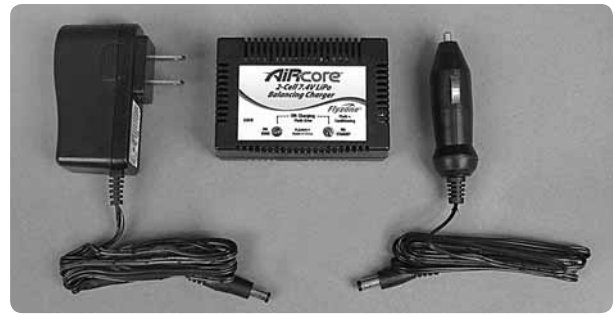


AIRCORE™

LiPo Balance Charger Instruction Manual



Read this entire instruction manual to learn about specific functions and features, and safety information.

INTRODUCTION

The AirCore LiPo Battery Charger is great for simple balance charging of 2-cell lithium-polymer batteries for small electric models. Use it only to charge batteries within a capacity range of 150 to 750 mAh.

SPECIFICATIONS

Input voltage:	11.7V – 15V DC
Battery types, # cells:	2 lithium-polymer cells connected in Series (7.4V LiPo)
Charge current:	450mA maximum
Charge method:	CC-CV (current drop-off termination)
Battery capacity:	150 – 750 mAh
Status indicator:	Two LEDs; one green, one red
Input connectors:	polarized DC power jack for AC/DC input
Output connectors:	One 2S balance plug
Case size:	2.18" x 1.13" x 3.26" [55 x 28 x 82 mm]
Weight:	2.1 oz. [59g]

SPECIAL FEATURES

- A very economical, portable and simple way to balance charge LiPo batteries
- Specifically designed for 2-cell 7.4V lithium-polymer batteries only
- “Constant current/constant voltage” charge method
- Automatically starts charge upon connection of battery to the balance plug
- 450 mA maximum charge current requires no adjustment
- Twin LEDs indicate charging status

IMPORTANT PRECAUTIONS

- Charge only lithium-polymer (LiPo) rechargeable batteries that are 2S (2 cells in series) 7.4V nominal voltage, from 150 mAh to 750 mAh, which have a balance connector.

- Do not attempt to use this charger with NiCd, NiMH or different types of Lithium-Ion batteries as they are not compatible!
- Do not leave the charger unattended while charging. Disconnect the battery and remove input power from charger immediately if either becomes hot! However, it is normal for the charger to get warm.
- Disconnect the battery from the charger immediately and remove to a fireproof location if the battery begins to swell or smoke!
- Only use the included car adapter or approved AC adapter to power the charger.
- Do not use charger with car running.
- Do not allow water, moisture or foreign objects into the charger.
- Do not block the air intake holes, which could cause the charger to overheat.
- Do not place the charger or any battery on a flammable surface or near a combustible material while in use.
- Do not charge on a carpet, cluttered workbench, paper, plastic, vinyl, leather, wood, or inside an R/C model.
- Never charge inside a full-sized vehicle.
- Always disconnect charger from input power when not in use.
- Do not attempt to charge a battery if it is swollen or hot.
- Keep out of reach of children.

CHARGING BATTERIES

IMPORTANT!! ALWAYS charge a LiPo battery in a location that is fireproof. **NEVER** leave the battery unattended while being charged! If the battery feels warm during charge, remove the battery at once and disconnect the charger from the power source.

Use only approved power input accessories – the included car adapter and AC adapter.

To charge a battery:

1. Connect input power to the charger. The GREEN LED will be lit, indicating standby mode. The RED LED will be OFF.
2. Connect the battery to be charged to the balance plug. The RED LED will also be lit, and remain RED during charging. Both LEDs should be lit solid while charging.
3. When the battery is fully charged, the GREEN LED will turn OFF. Remove the battery from the charger at this time.
4. Charging time depends on level of discharge and capacity of the battery. To estimate how long it should take to charge an empty battery, divide the capacity of the battery in mAh by the charge rate in milliamps:

200 mAh battery / 450 mA ~ 30 minutes
350 mAh battery / 450 mA ~ 50 minutes

LED scheme – Use this table to determine charge action:

<u>RED LED</u>	<u>GREEN LED</u>	<u>ACTION</u>
OFF	Solid ON	no battery is connected
OFF	Flashing	conditioning battery
Solid ON	Solid ON	battery charging
Solid ON	OFF	charge complete
Flashing	Flashing	ERROR

Possible sources of battery error may include a highly unbalanced pack, charger timed out, or one cell in the pack which is low voltage. In the case of a battery error, please remove the battery pack from the charger and inspect it carefully for swelling or any other damage, such as broken wires.

1-YEAR LIMITED WARRANTY

– *USA and CANADA ONLY

Flyzone® warrants this product to be free from defects in materials and workmanship for a period of one (1) year from the date of purchase. During that period, Flyzone will, at its option, repair or replace without service charge any product deemed defective due to those causes. You will be required to provide proof of purchase (invoice or receipt). This warranty does not cover damage caused by abuse, misuse, alteration or accident. If there is damage stemming from these causes within the stated warranty period, Flyzone will, at its option, repair or replace it for a service charge not greater than 50% of its then current retail list price. Be sure to include your daytime telephone number in case we need to contact you about your repair. This warranty gives you specific rights. You may also have other rights, which vary from state to state.

For service on your Flyzone product, warranty or non-warranty, send it post-paid and insured to:

HOBBY SERVICES (217) 398-0007
3002 N. Apollo Drive, Suite 1
Champaign, IL 61822

*For warranty and service information if purchased outside the USA or Canada, see the additional warranty information insert (if applicable) or ask your retailer for more information.

www.flyzoneplanes.com
www.rcaircore.com