



**ElectriFly**<sup>®</sup>  
By Great Planes

## MICRO DC 2S LIPO CHARGER

The ElectriFly<sup>®</sup> 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 750mAh.

### SPECIFICATIONS

- Input voltage:** 11.7V–15V DC  
**Battery types, # cells:** 2 lithium-polymer cells connected in Series (7.4V LiPo)  
**Charge current:** 450 mA 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 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. [59 g]

### 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.

Heat-resistant LiPo charging bags (GPMP0751) provide additional safety when charging and are available through your hobby supplier.

Use only approved power input accessories – the included car adapter and AC adapter (also available separately GPMM3310).

#### 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:**

<b>RED LED</b>	<b>GREEN LED</b>	<b>ACTION</b>
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**

Great Planes® 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, Great Planes 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, Great Planes 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 Great Planes 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.greatplanes.com      www.electrifly.com

## **LITHIUM BATTERY HANDLING & USAGE**

**ONLY** use a LiPo approved charger. **NEVER** use a NiCd/ NiMH peak charger to charge a LiPo battery.

**NEVER** charge in excess of 4.20V per cell.

**ONLY** charge through the “charge” lead. **NEVER** charge through the “discharge” lead.

**NEVER** charge at currents greater than 1C unless the battery is rated for a higher charge rate.

**ALWAYS** set the charger’s output volts to match the battery volts.

**ALWAYS** charge in a fireproof location.

**NEVER** trickle charge.

**NEVER** allow the battery temperature to exceed 150 degrees F (65 degrees C).

**NEVER** disassemble or modify the pack wiring in any way or puncture the cells.

**NEVER** discharge below 2.5V per cell.

**NEVER** place the battery or charger on combustible materials or leave it unattended during charge or discharge.

**ALWAYS** KEEP OUT OF THE REACH OF CHILDREN.

**NEVER** charge the battery in the plane.

**ALWAYS** remove the battery from the plane after a crash. Set it aside in a safe location for at least 20 minutes. If the battery is damaged in the crash it could catch fire.

If the battery starts to swell, quickly move the battery to a safe location, preferably outside. Place it in a bucket, covering the battery with sand. Never use water to try and put out a LiPo fire.