



LI-PO PARALLEL BOARD INSTRUCTIONS

INTRODUCTION

ElectriFly Parallel Boards are designed for connecting pre-assembled lithium-polymer packs in parallel, for increased overall capacity and flight times for electric flight. **Do NOT to use these Parallel Boards in ways which are not recommended! Read this entire instruction manual completely before use. Damage resulting from misuse or modification of this charger will void your warranty.**

SPECIFICATIONS

Compatible battery types: pre-assembled lithium-polymer packs
Max. load current: Molex plug = 10 amps *each plug*, Dean's plug = 18A *each plug*

SKU	PLUG TYPE	DIMENSIONS	WEIGHT
GPMP0898	Molex	0.59 x 0.51 x 1.97 in. (15x13x50mm)	0.14 oz. (4g)
GPMP0899	Deans Ultra	0.87 x 0.75 x 2.36 in. (22x19x60mm)	0.56 oz. (16g)

IMPORTANT PRECAUTIONS

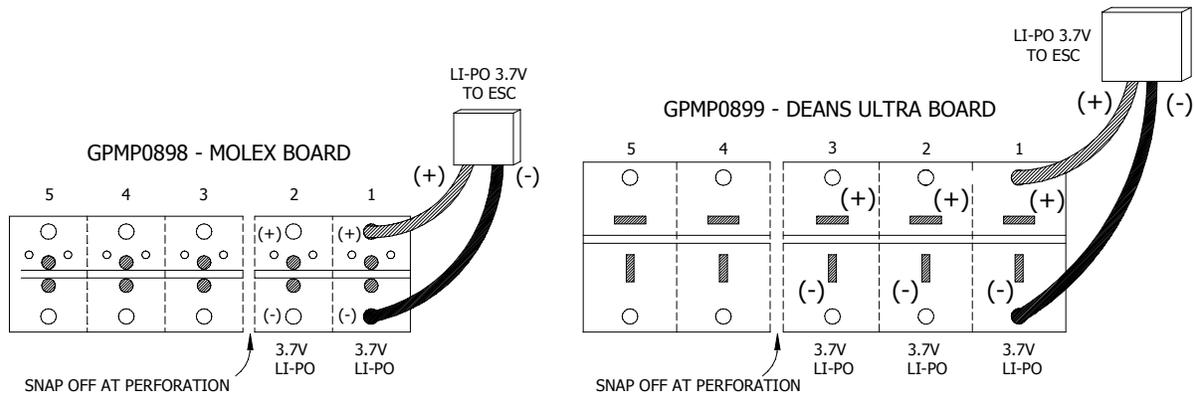
- Do NOT connect LiPo batteries of different capacity or voltage ratings to the parallel boards simultaneously.
- Do NOT connect LiPo batteries of different charge conditions to the parallel boards simultaneously.
- ElectriFly parallel boards are not intended for battery types other than LiPo batteries.
- **Do NOT place the parallel board on electrically conductive materials / objects while batteries are connected to the board at any time!**
- Do NOT allow water, moisture or foreign objects to make contact with the rear side of the pc board, or to the terminals of extra connectors which are not broken away from the board.
- **Disconnect batteries from the parallel board immediately if the batteries become hot!!** Allow the charger or batteries to cool before reconnecting.
- Do not use a charge or discharge current rate which exceeds the safe level of the board.
- Keep all Li-Po related products out of reach of children.

LITHIUM-POLYMER BATTERY SAFETY AND HANDLING INSTRUCTIONS

IMPORTANT!! It is very important to understand the operating characteristics of Li-Po batteries and these parallel boards before using them. Always read the instructions included with your Li-Po batteries prior to use! Failure to follow the care and handling instructions for the batteries and/or these parallel boards can quickly result in severe, permanent damage to the batteries, boards and their surroundings and even start a FIRE! Great Planes will not be held responsible for any and all incidental damages and bodily harm that may result from improper use of ElectriFly brand parallel boards with lithium-polymer batteries.

LI-PO BATTERY CONNECTIONS

Each parallel board has FIVE separate male connectors, for five separate batteries. If you plan to connect five batteries in parallel, use all five connectors. **IMPORTANT - If you plan to connect less than five batteries to the board it is highly recommended to cut or snap off those extra connectors that will not be used. This is to make sure that a short circuit condition does not occur as the result of accidentally letting a conductive material make contact with the unused connectors on the board.** Be careful to snap the boards at the perforations. It might be helpful to first score the perforation with a utility knife or razor-saw to make it easier to separate the unused connections. Use a small file to file down the side of the cut edges of the board to remove any small fragments of metal which might be remaining. **WARNING! Never accidentally short together the positive (+) and negative (-) connections on a Parallel Board when connected to any battery! Failure to do so could result in permanent damage to the battery and Parallel Board. Make sure not to allow personal jewelry such as rings, watches, etc. to make contact with open connectors on a parallel board or the rear of the board. Always be sure that no batteries are connected before cutting a perforation!**



It is highly recommended to cover the entire rear of the parallel board with an electrically insulative material BEFORE CONNECTING ANY BATTERIES to prevent a short circuit condition from occurring. Electrical tape, shrink tubing, or other forms of electrically insulative materials should be firmly affixed across the rear of the entire parallel board. It is also a good idea to cover the unused holes on the front side of the board (where output connectors can be attached) to prevent a short circuit from occurring as well.

When connecting multiple 3.7V batteries in **parallel**, the **total** voltage will still be 3.7V. Multiple 7.4V batteries connected in parallel will have a total voltage of 7.4V, etc. Connecting batteries in parallel does **not** change the total voltage, but does change total capacity and maximum output current to the ESC. NEVER connect batteries in parallel which do NOT have identical voltages!!

LI-PO BATTERY CONNECTIONS

Each individual battery connector on the Parallel Board includes two holes which are cut through the entire board. One hole is on the positive side (+) of the board, and the other hole is on the negative side (-) of the board. Securely connect an output connector of your choice to two such holes on the board (see above diagram). Make sure the output lead's positive wire is connected to the hole on the positive side of the board, and the negative wire is connected to the hole on the negative side of the board. It is highly recommended to use pre-assembled output leads with connectors to avoid possible erroneous operation as a result of using poor quality connections. Again, make sure that NO BATTERIES are connected to the board when installing the output connector.

CHARGING BATTERIES

To charge batteries, it is recommended to disconnect them from the parallel boards and connect them to the charger individually. It is possible to charge batteries through the output connector which you connect to the board, but it is very important that (a) the charger's capacity value is set to match the total capacity of the batteries which are connected in parallel, and (b) the charger's output voltage must also be set to match the voltage of the batteries which are connected in parallel. See your charger's instructions for further details.

For support on this or any other ElectriFly brand product contact Product Support by telephone at 217-398-8970, or by e-mail at productsupport@greatplanes.com.

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