

## MaxAmps MV5450 Multi-Voltage Lipo Battery Pack System User Guide

**STOP!** Before using your new MV pack(s) for the first time, please carefully read this guide and view the instructional video on our website as advanced electrical knowledge is required. Video is located at the bottom of the MV5450 product description.

**Important Notice:** Do NOT use this system on or around metal work surfaces. When handling these cells/packs, make sure they are on a wood or rubber surface only!

### Step-By-Step Parallel Charging Instructions:

- 1) Start with your charger “off”.
- 2) Plug the provided 4mm Gold charge leads directly into charger output ports while observing correct polarity. Red = positive(+). Black = negative(-).
- 3) **Warning** – before moving to step 4, be aware that once “T” style parallel charging connectors are plugged into the cell they become live with electricity. This means that the positive “T” connector and the negative “T” connector can NOT make contact with anything metal/conductive at the same time or short circuit will result in damaging the pack and possibly causing a fire.
- 4) Plug the bottom of the positive(red) “T” connector into the positive side of the first cell. Plug the bottom of the negative(black) “T” connector into the negative side of the first cell.
- 5) Now plug that cell into the charger leads, red to red and black to black, before proceeding to build the next cell.
- 6) **Important** – only plug “T” connectors into one cell at a time. Then connect to the charger.
- 7) Repeat steps 4 and 5 for additional cells by now plugging them into the previously attached cell instead of the charger leads until the pack you desire to charge is completed.
- 8) Power “on” charger.
- 9) Set charger to Lipo mode.
- 10) Set cell count to 1S 3.7V Pack
- 11) Set capacity to the total “mAh” of the cells in parallel. For example, two MV5450 cells = 10,900mAh. Three MV5450 cells = 16,350mAh. Four MV5450 cells = 21,800mAh and so on.
- 12) Set charge rate to 10.9A for a 2 cell pack, 16.35A for a 3 cell, 21.8A for a 4 cell and so on. You can always charge your pack at a lower rate, just not at a higher rate.
- 13) Start charge sequence. No balancer is required since you are charging as a single 1S pack.
- 14) **Important** – once charging is complete, disconnect each cell one at a time starting with the cell you connected last and working your way back to the charger leads. After disconnecting the cell, remove the “T” connectors immediately to avoid the same short circuit mentioned in step 3.

### How to assemble MV Pack in series:

- 1) Start by plugging the positive(red) main lead into the positive side of the first cell.
- 2) Take the next cell and place it flat on top of the first cell but with opposite polarity. Positive(red) side of the second cell should match up with negative(black) side of the first cell.
- 3) Now take a series connector and simultaneously plug it into the negative side of the first cell and the positive side of the second cell.
- 4) If you are building a 2-cell pack, just plug the negative(black) main lead into the negative side of the second cell and your pack is complete. If you are building a larger pack, continue to step 5 instead of doing step 4.
- 5) For a 3-cell to 6-cell pack, repeat pattern in steps 2 through 4 until desired pack is complete.

**Reminder:** “Series”= positive(+) to negative(-). “Parallel”= positive(+) to positive(+), negative(-) to negative(-).