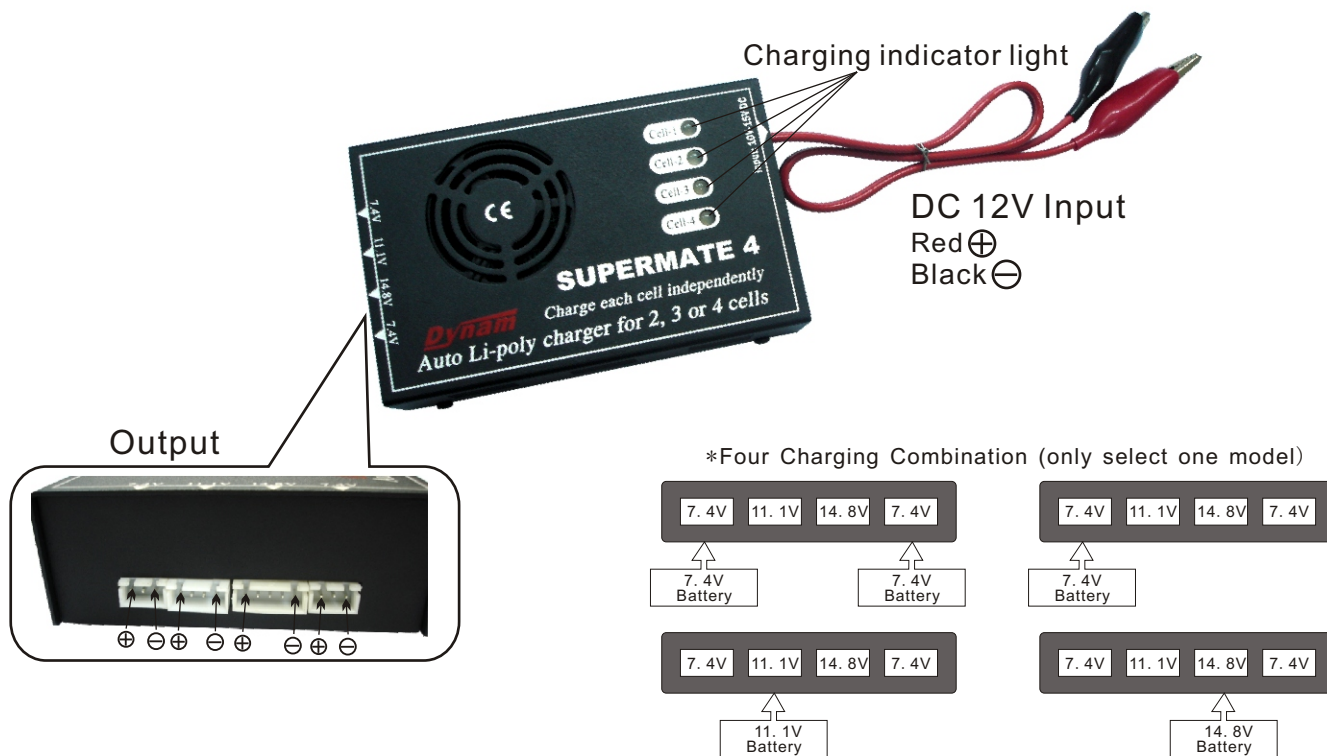




Instruction manual SUPERMATE 4

Auto li-poly Charger for 2, 3 or 4 cells



Features / Specification

1. Input voltage range DC 10-15V
2. Output 8.4 v (4.2 v x 2) x 2, or 12.6 v (4.2 v x 3) x 1, or 16.8 v (4.2 v x 4) x 1.
3. 1.0A charging current and 4.2 v charging voltage charging technique.
4. Auto adjustment of the charging current at voltage peak region. Auto-cut off when battery cell is full charged
5. The innovative charger for 1 - 4 cells of Li-ion or Li-po battery packs. It can be used to charge 4 ea 1 cell pack (optional by using 2 ea switch charging cable for ports of 7.4 v), or 2 ea 2 cells pack, or 1 ea 3 cells pack or 1 ea 4 cells pack. **Notice: The charger can not charge over 4 cells at the same time. For example, 11.1V (3cells) battery and 7.4V(2cells) battery, or 11.1V(3cells) battery and 14.8V (4cells) battery charged at the same time are not allowed.**
6. LED indication, red color for charging, green color for charger ready or battery cell full charged.
7. Instead of charging all cells of the battery pack serially, this charger will independently control charging process of each cell of the battery pack. It will completely eliminate the interference between cells of the battery pack during charging process. It will also avoid the possibility of burnt or explosion caused by a problem battery pack with defective cell inside.
8. Sturdy aluminum case & exhaust fan for maximum heat dissipation.
9. Auto-cut off charger operation when voltage of the power source is lower than 9v. All LED will be light off.
10. Size: 130 x 80x 30 mm. Weight: 290g.

HOW TO CHARGE

Step1: Connecting charger to a DC 12V power source. (+) And (-) signs have to properly aligned.

Note: Do not connect to AC 110V or 220V. All LED will light on in green color, indicating that the charger is in good status & ready to use.

Step2. Select out-put ports (connectors) for the battery packs to be charged.

Please check (+) and (-) signs of the out-put ports is the same to the battery.

There are 4 out-put ports of the charger, the port labeled 7.4v is for 2 cells (3.7v x 2), the port labeled 11.1v is for the 3 cells battery pack & the port labeled 14.8v is for the 4 cells battery pack. Connecting battery packs to the charger, a short auto-check of each cell of the battery pack will be done by the charger. After the auto-check, the charger will start charging every single cell of the battery pack independently. During charging process, if the cell is good the relative LED will turn into red, otherwise, if the cell is defective, the relative LED will light in green color.

Step3. Start charging.

For a good battery pack, the number of the led which changes color into red shall be the same as the number of the cells of the battery pack. For example, a 2 cells battery pack will have 2 LED in red color during charging, a 3 cells battery pack will have 3 LED in red color during charging.

Step4. Fully charged

When the battery pack is fully charged, all relative cell - LED colors will change from red to green. It indicates the battery pack is fully charged and ready to use any time. If the battery pack stay on the charger after full charged, the charger will re-charge the battery when the voltage of the battery cell (cells) is dropped down to under 4.15v.

Notice: Right after a battery pack is full charged, if its relative LED change colors from green to red after 20 - 30 seconds, the battery pack is defective or going to be defective & can't be used any more.

PRECAUTIONS:

1. Do not connect to AC 110V or 220V, otherwise the charger will burn immediately.
2. This charger charges Li-Po battery only. Please do not charge Ni-Cd, Ni-Mh battery packs.
3. When the charger does not work well or abnormal, please check (+) and (-) signs of the input and output if they are connected correctly or if power source is 12V DC enough.
4. Choose charge rate under 1C. It's good to battery performance.