

LBC 903

Dear model fan,

We appreciate your decision to purchase our lithium battery charger LBC 903.

This charger is intended for charging 2 or 3 cells with a charging current of 300mA, 600mA and 900 mA. The charging current can be adjusted according to battery type by means of jumpers accommodated at the charger current input cables. The value of the charging current should not exceed a maximum of 0,7 C battery capacity, newer types of Li-Po cells allow a maximum of 1 C. The charging current can be adjusted by means of a jumper for two or three cells at the charger exit side.

Charging

After connecting the charger to a power source a red signal LED lights up. Adjust the current and voltage by inserting the jumpers in proper positions. After connecting the charged battery the green signal LED lights up and its brightness signalizes the current value. The brightness of the diode continually decreases and towards the charging end and full battery the shine becomes very low. When charging three cells the input voltage must minimally be 13,8 V. You can use a CB station mains power supply or connect 12 NiCd cells with a capacity of 1700mAh in series.

The maximum allowed charging current is specified with 0,7 to 1C. This corresponds to a charging time of approximately 1,5 to 2 hours. You must realize that within the last hour when charging commences at constant voltage the cell is already charged to 90 % of its maximum capacity.

It is extremely important that the voltage of discharged Li-Ion and Li-Po batteries is never allowed to drop below a certain recommended value. Manufacturers usually recommend lowest allowed voltages of approximately 2,5 to 2,8 V per cell.

Technical data:

input voltage	12 – 15 V, for three cells min. 13,8 V – 15 V
charging current	300, 600 and 900 mA +/- 10%
output voltage	8,4 and 12,6 V +/- 0,6 %

Warning !

Beware cells against shorts and high temperatures !

Check cell temperatures while charging, discharging and storing cells. Temperature should never exceed 60 degrees C ! During charging the cells should not warm up altogether.

Before connection to the charger check the adjustments of cell numbers, maximum charging current and watch correct polarity !

Do not exceed the maximum charging current of 0,7 to 1C (according to type of battery).

Do not connect deeply discharged batteries ($U < 2,5 \text{ V} / \text{cell}$) to the charger.

Some cell types have no pressure release safety valves and may explode and catch fire if handled improperly!

Do not leave batteries unattended when charging, choose a suitable place and a fire resistand base for charging purposes.