

T-1000

Computer controlled fast charger for NiCd and NiMH rechargeable cells

Operating instructions:

1.) Features:

The charger T-1000 is a computer controlled fast charger with a total of four charging slots. These can be loaded with each one rechargeable cell of the two most common sizes (AAA and AA).

The charge time amounts between 2 and 3 hours. The unit is designed to charge the two types of 1.2 V cells NiCd and NiMH.

The unit checks the condition of the inserted cells. If the unit detects if a cell is completely charged, it switches automatically to trickle charge mode. If it detects a bad cell, it will not charge it.

The unit is equipped with an additional safety shut-off timer function, which switches the charge current off after a certain time since the charging process had begun. This shall prevent any hazard of overcharge.

The charging slots are proof against wrong polarity of the inserted cells.

The unit indicates the quick charge process, the trickle charge process and the detection of bad cells.

The unit can either be supplied by the enclosed AC adaptor (type 220125) or by the enclosed DC car adaptor.

2.) Insertion of rechargeable batteries into the fast charger T-1000:

The unit can only charge either 2 or 4 cells at a time. According to the number of cells you want to charge, push the slide switch either to the left hand side to the position "2" or to the right hand side to the position "4". If you want to charge only two cells you must use the two charging slots which are located on the left hand side.

When you start the charging process, you have to ensure also that all cells, which are intended to be charged, are of the same size (AAA or AA), the same type (NiCd or NiMH) and the same capacity.

The charging slots are covered by a transparent lid. To open the lid you have to take it with two fingers on both sides in the middle of the unit and to pull it upwards. Then fold it up in direction of the unit's front side.

According to the cells' size (AAA or AA) you can adjust the two contact plate pairs for the cells' positive terminals. In case of AAA type cells you must pull them down, if you charge AA type cells you have to move them up. The ability to fold these two contact plate pairs enables on the one hand a tight fit inside the charging slots and on the other hand a setting of the charger circuitry to the size of the currently charged cells.

Now insert all cells intended to be charged with the correct polarity into the charging slots. The positive contact has to show always in direction of the adjustable contact plate pairs. If the cells are inserted the wrong way round, they won't be charged.

3.) Recharging of 1.2 V cells with the charger T-1000:

After the unit has been loaded with all rechargeable batteries intended to be charged, close the lid. Now the charger has to be connected with a suitable power supply. The supply socket DC 12V 500mA at the rear panel of the charger serves to this end.

If you are at home or in office put the barrel plug put at the end of the AC adaptor's supply cord into this socket. Then insert the AC adaptor into a correct house-hold electric outlet (230 V / 50 Hz).

If you are on the road in a vehicle, put the barrel plug at the end of the DC car adaptor's supply cord into this socket. Then insert the DC car adaptor's large plug into the 12 V car lighter port.

On the rear area of the top side of the charger you can see on the left hand side a red light emitting diode and on the right hand side a green light emitting diode to indicate the charging status inside all inserted cells. At first the red LED lights up constantly. This indicates that the cells are just being charged with the correct quick charge current that matches with their size. While the charge is being processed the unit supervises continuously the cells.

If the unit detects that all cells are completely charged, it will reduce the charging current to a small value. This is the trickle charge mode which compensates the self-discharging of the cells. To indicate this charging status the red LED turns off and the green LED lights up constantly. Now the cells are ready for use and can be removed from the charger.

If the unit detects that the cells are damaged, it will terminate the charging process, and the red LED will start to blink. In most cases the cells are short-circuited or interrupted. You should remove such a cell at once. Bad cells can leak and damage the charger. Worn out cells do not belong in the waste bin, but must be returned to a suitable collecting depot or to a special dealer, for the sake of the environment.

4.) General information:

The unit is designed for indoor use only. It must not be exposed to rain or moisture. Unplug the charger and remove the rechargeable cells from the charger T-1000 when it is not in use.

Don't charge other batteries than rechargeable 1.2 V cells of the types NiCd or NiMH and the sizes AA or AAA. Attempting to charge other types of batteries may cause personal injury and damage to the charger.