

# TEVION

## RECHARGEABLE BATTERY CHARGER

Item#6506



**INSTRUCTION MANUAL**

## IMPORTANT SAFEGUARDS

### PLEASE READ AND SAVE THESE INSTRUCTIONS

#### WARNING

- ✧ The Tevion Charger is designed for indoor use at normal temperature. Keep the charger away from direct sunlight, moisture, or direct heat.
- ✧ Use only the adaptor that comes with the Tevion Charger.
- ✧ **The battery charger is designed to charge only Ni-Cd and Ni-MH rechargeable batteries of size AAA, AA, C, D and 9V. Please do not attempt to charge any other type of battery to avoid safety hazard.**
- ✧ Do not use with leaking or corroded batteries.
- ✧ It is normal for the batteries and adaptor to become warm when in operation. Please ensure there is adequate space and air for the charger to operate.

### READ AND SAVE INSTRUCTIONS

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## **INSTRUCTIONS**

**Tevion Battery Charger is designed to charge only Ni-Cd (Nickel Cadmium) and Ni-MH (Nickel Metal-Hydride) type of rechargeable batteries.**

This Tevion Charger has a micro-processor built in that can automatically control the charging of Nickel Cadmium (Ni-Cd) and Nickel Metal-Hydride (Ni-MH) rechargeable batteries of AAA, AA, C and D size. It use - V to control the charging of Ni-Cd batteries and + V for Ni-MH. This ensures that rechargeable batteries with different brands and capacities will always be fully charged. The charger can also charge 9V rechargeable batteries using a continuous trickle charge. There is also discharge, deep conditioning, and self test function for this charger.

The charger is designed so that if you were charging with both compartments, the compartment filled first would be charged first, while the other compartment would be in waiting mode.

As the charger charges two pieces of battery at the same time, it would work best if both batteries in the same compartment have similar characteristics. This means that the batteries should have the same size and same capacity. If they are different, the charger will charge according to the battery with the smaller capacity. If one battery is empty and the other is full, it is best to discharge the batteries first. It is also helpful to deep condition new batteries first.

***Please note that batteries should only be removed when in READY mode. If for some reason that you would need to remove and re-insert the batteries during charge/discharge, please press the yellow DISCHARGE button twice to refresh the charger.***

## CHARGE AND DISCHARGE TIME

(Reference for 2 rechargeable batteries only)

Battery Size	Capacity(mAh)	Approximate Charge Time
AAA/Micro	180	17min
	240	22min
AAA/Mignon	500	47min
	1100	103min
C/Baby	1800	2 4/5hr
	2000	3 1/8hr
D/Mono	2000	3 1/8hr
	4000	6 1/4hr
9V/Block	100-120	10 to 14hr

**Note: The charge time varies with brand/age/condition of rechargeable battery.**

The charge and discharge time for the batteries can be estimated by the following equation:

$$(\text{Battery Capacity} / 800\text{mA}) / 80\% \times 60$$

This means that the charge time for 2 AAA size 180mAh batteries is approximately 17 minutes (the time differs if batteries are old, and not at optimal conditions).

Discharging time = (the remaining capacity of the batteries / discharge current 300Ma)

If the capacity of the batteries is 2000mAh, the discharging time is  $2000\text{mAh} / 300\text{mA} = 6.7\text{hours}$

## **QUICK START**

1. Plug the AC/DC adaptor into the electrical outlet, and the jack plug into the charger.
2. Open the lid by sliding down the “Open” button.
3. Insert the rechargeable batteries you want to charge. For AAA, AA, C or D size, place two pieces of battery of the same size into the same compartment. For 9V batteries, place in either/both slots between the two compartments.

### **(Step 4 to 7 is for AAA, AA, C or D size rechargeable batteries)**

4. If you need to discharge the batteries, press the yellow Discharge Button.
5. If you need to deep condition the batteries, press the yellow Discharge Button and hold it until a “beep” sound is heard, and the “Ready” green LEDs flashes. Release the button.
6. The compartment that has the batteries placed first will be charged first. Or if both compartments have batteries placed in at the same time, Compartment 1 will be charged first.
7. The batteries are ready to be removed from the compartment when the “READY” LED for the corresponding compartment begins to flash.

### **(Step 8 to 9 is for 9V rechargeable batteries)**

8. The charger can charge 1 or 2 pieces of 9V batteries at the same time.
9. 9V batteries cannot be discharged or deep conditioned. Once the battery is placed into the slot, the red LED underneath the battery will light up until the battery is removed.

## SELF TEST MODE

The Tevion Charger can perform a self test to check if the charger is fully functional. When a “beep” sound is heard, the charger is ready to be used.

1. Remove all batteries and unplug the jack plug from charger.
2. Connect the AC/DC adaptor to the wall electric socket.
3. Push the DISCHARGE button and hold it down, and then insert the jack plug into the charger. Release the DISCHARGE button, and the LEDs will light up as follows:

	Power	Discharge	Charge	Ready	Discharge	Charge	Ready	Sound
Test Start Mode	○	○	○	○	○	○	○	
Compartment 1	○		○			☆		
Compartment 2	○		☆			○		
Ready Mode	○			※			※	
Discharge Mode	○	○			○			
Test Finish Mode	○	○	○	○	○	○	○	—

- LED light
- ☆ LED blink for 5 times
- ※ LED light once and blink 3 times
- Beeper sound once

4. If the LEDs do not light accordingly, the battery charger is not fully functional.

## **DEEP CONDITIONING MODE**

This mode can rescue rechargeable batteries damaged by memory effect. It will automatically discharge and recharge the batteries in both compartments three times.

1. Insert batteries into either one or both of the compartments. Please note that this mode will automatically discharge and recharge the batteries in both compartments three times.
2. Press and hold the yellow DISCHARGE button until the READY LEDs begin to flash and the charger makes “beep” sound. Release the button immediately.
3. The LEDs light up as in Discharge and Charge Mode. The only difference is the flashing of the READY LEDs. During the 1st cycle, the READY LEDs flash three times, stop, and repeat until the cycle is completed.
4. During the 2nd cycle, the READY LEDs flash twice, stop, and repeat until the cycle is completed.
5. During the final cycle, the READY LEDs flash once, stop, and repeat until the whole deep conditioning mode is completed.
6. When this mode is completed, the READY LEDs blinks, and the CHARGE and DISCHARGE LEDs all go off. The batteries are now ready for use.

***Note: Press the DISCHARGE button to cancel Deep Conditioning Mode and switch back to Charge Mode at any time if desired.***

***Note: The deep conditioning process from beginning to end may take up to 20 - 40 hours. Please see the charge and discharge equations on page 4 to estimate approximate time.***



## **TECHNICAL SPECIFICATIONS**

<b>Model</b>	MW5798
<b>Input:</b>	DC 12V 500mA 120V with AC/DC Adaptor MW1250UC
<b>Charge Current:</b>	Constant pulse current of 800mA
<b>Boost Charge Current:</b>	1/2 Constant Pulse Current
<b>Trickle Charge Current:</b>	1/10 Constant Pulse Current
<b>Discharge Current:</b>	300mA
<b>Detection:</b>	- V, + V

## LIMITED WARRANTY

Item # 6506

Thank you for purchasing a top quality **Tevion** product. This **Rechargeable Battery Charger** was tested and meets our stringent quality standards. This product is warranted to be free from manufacturing defects in original materials, including original parts, and workmanship until **November 22, 2005 or 1 YEAR AFTER DATE OF PURCHASE WITH PROOF OF RECEIPT.**

The warranty is void if the defect is due to accidental damage, misuse, abuse, neglect, improper repair or alteration by unauthorized persons or failure to follow operation instructions provided with the product. This warranty does not apply to commercial use.

*This warranty is non-transferable and applies only to the original purchaser and does not extend to subsequent owners of the product. Liability under this warranty is limited to repair, replacement or refund. In no event shall liability exceed the purchase price paid by the purchaser of the product. Under no circumstances shall there be liability for any loss, direct, indirect, incidental, special or consequential damage arising out of or in connection with use of this product. This warranty is valid only in the United States of America. This warranty gives you specific legal rights. However you may have other rights that vary from State to State. Some States do not allow limitation on implied warranties or exclusion of consequential damages therefore these restrictions may not apply to you.*

In case you find the product to be defective please send it within the warranty period to our service center. To avoid transport damages please send the product in the original packaging. In return you will receive your repaired item, a new product or a refund. Please fill out the Warranty Card and send it together with the product and purchase receipt.

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