



## Connevens Limited

**EQUIPMENT FOR THE DEAF AND HEARING IMPAIRED  
IN EDUCATION, EMPLOYMENT, THE HOME & LEISURE**

54 Albert Road North, Reigate, Surrey RH2 9YR, United Kingdom  
Switchboard: 01 737 247571 Text: 01 737 243134 Fax: 01 737 223475  
Internet: [www.connevens.com](http://www.connevens.com) Email: [mail@connevens.com](mailto:mail@connevens.com)

### **Information on the use of the Intelligent 9V quad battery charger for Nickel Metal Hydride (and Ni-Cad) RX22 rechargeable batteries**

Connevens part number 22684 - marked CONRAD 9V Battery Charger

This battery charger replaces the 2268VC dual charger.

There are a number of advantages in using the new charger, other than you can charge up to 4 batteries at a time!

- 1) If the quad charger is unplugged or loses power part way through the charge cycle then charging will simply continue when power is restored
- 2) Choice of charging modes for those who wish to try and recover 'dead' batteries
- 3) Improved charging technique will help batteries last more cycles
- 4) Top-up charging without overcharging
- 5) Charging to the full battery capacity which is 150mA for batteries Connevens currently supply (the capacity is marked on the battery). The 2268VC charger in fact charges batteries to the original battery capacity of 110mA (as marked on the charger) the new quad charger will give you up to 36% longer battery use.

#### **WARNINGS**

- 1) Never attempt to charge non rechargeable batteries
- 2) Do not leave charger or batteries in direct sunlight
- 3) Only use the charger in dry rooms
- 4) Ensure that charging of batteries is monitored by a responsible person

### **Simplified Instructions**

Whilst you can use the charger in complex ways, having plugged in the charger and turned on the power socket, follow these 2 steps you will find it easy to use!

- 1) Plug in the rechargeable battery
- 2) Don't touch any buttons

The battery will be charged in 9 hours - less if not fully discharged - the display will tell you when charging is successful. If required you may take the battery for use at any time.

*What does the display tell me?*

Whilst charging the display shows 'CHA' with a flashing '\*' - for charging.

When charging is successful the display show 'RDY' - for ready.

If a problem occurs the display will show 'ERR' - for error.

***Quite easy really!***

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## General information on the 22684 intelligent quad charger

The electronics in the quad charger will prevent your battery from being overcharged. Full instructions are supplied with the charger, however the following is a summary for the less technically minded.

The Connevans 22684 quad battery charger is an intelligent charger which will not overcharge RX22 (9 volt PP3 sized) Nickel Metal Hydride and Ni-Cad batteries.

The normal mode of use is to (top-up) charge the battery - the charger calculates the correct amount of charge to do this for each battery - simply plug-in the battery and this is the default mode. The time to charge a discharged battery is up to 9 hours. 'Memory' effects are not normally an issue with Nickel Metal Hydride rechargeable batteries

The full range of modes for the quad charger

CHARGE - normal default mode - charges battery

DISCHARGE - discharges battery *only*

CHECK - discharge *followed by* charge

CYCLE - charge *followed by* discharge *followed by* charge

ALIVE - charge *followed by* discharge *followed by* charge *followed by* discharge *followed by* charge (if it fails after this it is probably duff!)

Other than the normal Charge mode Connevans would recommend sometimes using two of the other modes.

**CHECK mode.** Because batteries can be damaged by being *totally* discharged, and because batteries slowly self discharge we advise charging spare batteries before storing them, and recharging **all** batteries before holiday periods of non use. Use the CHECK mode before storing batteries or holiday periods and also before you do wish to use them.

**ALIVE mode** If you have a battery which seems to be 'dead' try the ALIVE mode before you 'give up' with it.

How do you select modes other than normal?

Simply plug in battery and press the 'mode' button until your required mode is shown (you have about 5 seconds to do this) - if you run out of time or get confused please unplug the battery, wait 10 seconds and try again. Repeating this procedure for each battery. You can charge different batteries in different modes if you wish - *but we suggest you write yourself a reminder note for the morning so you know what slot was left doing what!*

If the mode button is pressed later on part way through the charge cycle the charging data will be shown - impressive but of not much interest to the average user!

Lastly, once charged if a battery is left in the charger a period of trickle charge (indicated by 'TRI') will occur about every 5 hours. This trickle charge 'boost' will safely keep the battery fully charged over several days. Connevans would however not advise leaving batteries on trickle charge for very long periods (i.e. over holidays), as a rough guide we would not recommend leaving batteries in the charger for more than a couple of weeks.

Please contact Connevans customer services should you require further help or information on this or any other products that we supply.