

## User Manual IQ 338

Please read the manual carefully before using this charger.

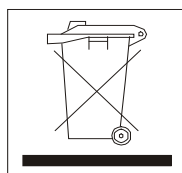
We thank you that you have decided to purchase our intelligent charger.



Please follow the safety and care instructions in this manual, to be able to use this device efficiently and safely.

### Included in delivery:

- Charger IQ338
- Power supply
- User Manual



**Important notes:**

- Use the IQ 338 charger only with Li-Ion cells with 3.6V-3.7V and NiCd, NiMH cells with 1.2V rechargeable batteries.
- With the IQ 338 you can automatically charge the following types of cells:  
Li-Ion: 26650, 22650, 18650, 17670, 18490, 18500, 17500, 17355, 16340, (RCR123), 14500, 10440  
NiMh/NiCd: AA, AAA, A, Sub-C, C-Baby  
Do not use the charger with other types of batteries (for example: Alkaline or other Systems).
- Use the charger only in dry and closed rooms with normal conditions.
- If the charger is not in use, we recommend to disconnect the power cable from the socket.
- During the charging process, you should not leave the charger unattended.
- Keep the batteries out of the reach of children.
- When new batteries are in use for the first time, it might be required that the batteries need to be charged and discharged several times before they reach their optimum capacity.
- The charger must be used on a non flammable base.
- Always use the right charging current for each battery. You can look for the right current in the manufacturer specification.
- Heat get produced if batteries get charged. It is very important to ensure that the charger is placed in an incombustible area (pay attention to carpets, paper, flammable liquids, furniture and so on).

## Inputs:

DC 12V

## Outputs:

Four independent charging slots  
One 5W USB output



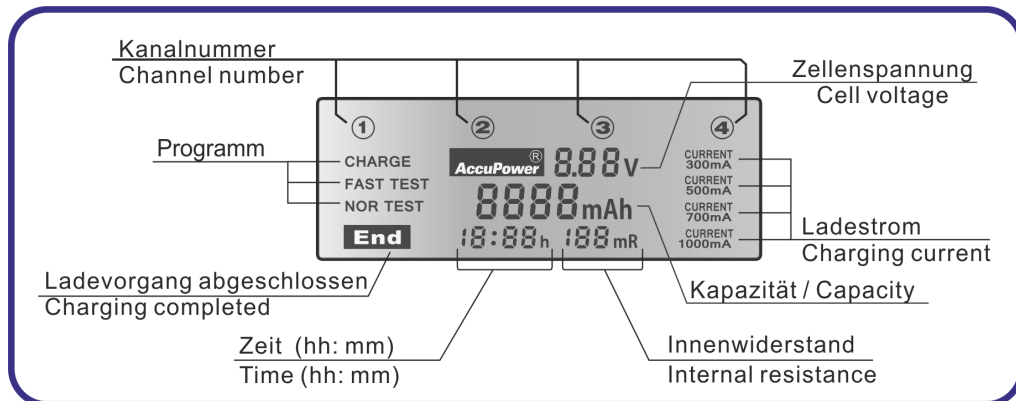
## Buttons:

- Battery slot select buttons
- Mode selection button (MODE)
- Charging current selection key (CURRENT)

## Display:

The following values are apparent on the display during a charging process:

- Program (Charge, Fast Test, Nor Test)
- Battery Voltage (V)
- Capacity (mAh)
- Elapsed time (hh:mm)
- Internal resistance (mR)
- Charging current (mA)
- „End“ (Appears if actual charging process finished)
- Channel number



**Display Description**

You can choose the following programs:

### Charge

In this program you can charge the inserted batteries.

### Fast Test

With „Fast Test program“ you can measure the charged capacity of the batteries. The charger discharges the batteries in the 1st step, during the discharge process the LC Display will hide the capacity (- - - mAh) because it is not relevant and charges the battery completely in the 2nd step, than it shows the charged capacity on the LC Display. Generally batteries can be charged with higher capacity than the available discharge capacity. This mode can also be used very well for refreshing batteries.

### Nor Test (Normal Test)

The difference of „Nor Test Program“ to „Fast Test Program“ is, that the batteries will get charged in the 1st step during this 1st charge process the LC Display will hide the capacity (- - - mAh) because it's not relevant, discharged in the 2nd step and charged completely again in the 3rd step than it shows the discharged capacity in the LC Display. The process is as follows: charge – discharge – charge. In this way the current state of health of the battery (still available capacity of the cell) can be detected.

At Fast Test and Nor Test the discharge current will be selected automatically in relation to the selected charging current. Below table shows the discharge current value in relation to the selected charge current.

Selected charging current	300 mA	500 mA	700 mA	1000 mA
Following discharge current	250 mA	250 mA	500 mA	500 mA

**Charge:**

If you like to charge one or more batteries, the cells should be inserted into the charging slots. Now the charger identifies the battery chemistry and starts generally with the charge process and selects automatically the charge current with 500 mAh. The same conditions will be used for all inserted batteries and can be changed through pressing the mode button.

**Individual setting:**

If you want to charge different batteries with individual settings, so it is recommended to insert the batteries separately one by one. Only when all the settings via the appropriate keys were selected for the first battery and the font on the LC display stops flashing, the battery is taken from the charger, the next battery can be inserted and selected as described before. If you like to change the selected program, press the mode button for some seconds till the function starts to flash on the LC display than it is possible to change the function through pressing the mode button again, if you like to change the current you can change it through pressing the current button, that's possible as long as the function flashes on the LC display, after some seconds the charger accepts the now selected information and stops flashing.

If the charger started the selected program, it can only be interrupted through removing the cells from the slots or pressing the mode button for some seconds. Short pressing of the mode button cannot interrupt the running program, this is a protection against unintentional cancel the program.

Because the charger shows important extensive information to each slot, the whole LC Display will be used for the selected slot, if you like to see the information for another slot, you have to press the selection button of the slot you like to check. Changing the selected slot does not influence the charging program.

**Disclaimer:**

- The manufacturer and supplier is not responsible for incorrect or improper use and the resulting consequences.
- Any repair or modification that is not performed by the original supplier will void the warranty.
- The device may be used only by people who have read and understood such instructions.
- The specifications are subject to change without previously pointed out.
- This product is not a toy. Keep out of reach of children.
- The reproduction of this manual or parts of there is permitted only with written permission of the manufacturer.

**Safety instructions:**

Please observe the following safety instructions:

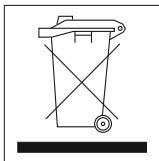
- Use as described in the instructions, only NiCd, NiMH or Li-Ion batteries!
- The device is not approved for outdoor use. Protect it from high humidity, water, rain or snow. Keep the device away from excessive heat and direct sunlight.
- Do not dispose batteries in a fire!
- Do not use other than the supplied accessories. In particular, attention is drawn to use the supplied original power adapter for the battery charger.
- Unplug the power cord from the outlet when not in use.
- The device should not be used if it has received a blow or damaged in any other form.
- Don't use the charger for any other purposes than described in the instruction.
- Do not open or disassemble the unit, otherwise there is a risk for electric shock or fire.

### Note on disposal:

Please inform yourself about the local collection points for electronic devices. Please check local environmental standards and do not dispose your old products with normal household waste. The charging unit may only be disposed of in waste management authorities set up collection points. The proper disposal of your old product will help the environment and health.

Rechargeable batteries must not to be disposed in domestic waste. Return used batteries to your dealer or to an authorised battery collecting point.

### Technical specification



Input Voltage	AC Input: 100-240V (for AC Power supply); DC Input: 12V (11-14V) / 3A
Monitoring / Display	LCD display live view with backlight: Shows the charge status, capacity, voltage, charge current, operating time and internal resistance. Size:70mm * 25mm
Display Backlight	Yes
Controls	Six Buttons „easy to use“ function (easy handling).
Operating Modes	Charge; Fast Test; Normal Test
Charge Method	CC/CV for lithium types Li-Ion batteries, Delta-peak Sensitivity for NiMH / NiCd
Safety Temp. Control	Charge Cutoff Max. Temperature (50°C)
Charge Voltage	NiCd / NiMH: Delta peak detection Li-Ion: 4.2V/cell
Charge Current	300mA, 500mA, 700mA, 1000mA independently adjustable for each channel
Discharge Cut-off Voltage	NiCd / NiMH:0.9V/cell Li-Ion: 2.8/cell
USB- Output	Yes, 5VDC / 1000mA
Battery Types/Size	NiCd / NiMH: AA, AAA, A, Sub-C, C Li-Ion: 26650, 22650, 18650, 17670, 18490, 18500, 17500, 17355, 16340 (RCR123), 14500, 10440
Battery Capacity Range	NiCd / NiMH: 300 - 16,000mAh Li-Ion: 300 - 20,000mAh
Case Material / Size	Plastic / L: 159mm; W: 92mm; H: 34mm
Weight	200g for charger unit

**AC Power supply:** AC Input: 100-240V; DC Output: 12V /3A

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**NOTE:**

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