

User Manual YC5000

Please read the manual carefully before using this charger.

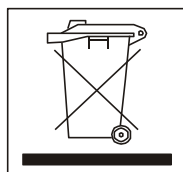
We thank you that you have decided to purchase our intelligent charger.



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

Included in delivery:

- Charger YC5000
- Power supply
- User Manual



Important notes:

Use the YC5000 charger only with Li-Ion cells with 3.6V-3.7V and NiCd, NiMH cells with 1.2V rechargeable batteries.

With the YC5000 you can automatically charge the following types of batteries:

Keep the batteries and charger out of the reach of children.

Battery	How many batteries can be charged at the same time?	
1.2V NI-MH/NI-CD	Size :4pcs for AA,AAA	Size:2pcs for SC, C
3.7V Li-Ion battery	Size:4pcs for 18650,17670,18490,17500,17335, 16340,123A,14500,10400	Size :2pcs for 26650,22650,26500

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:

DC12V/3A

Outputs:

Four independent charging slots

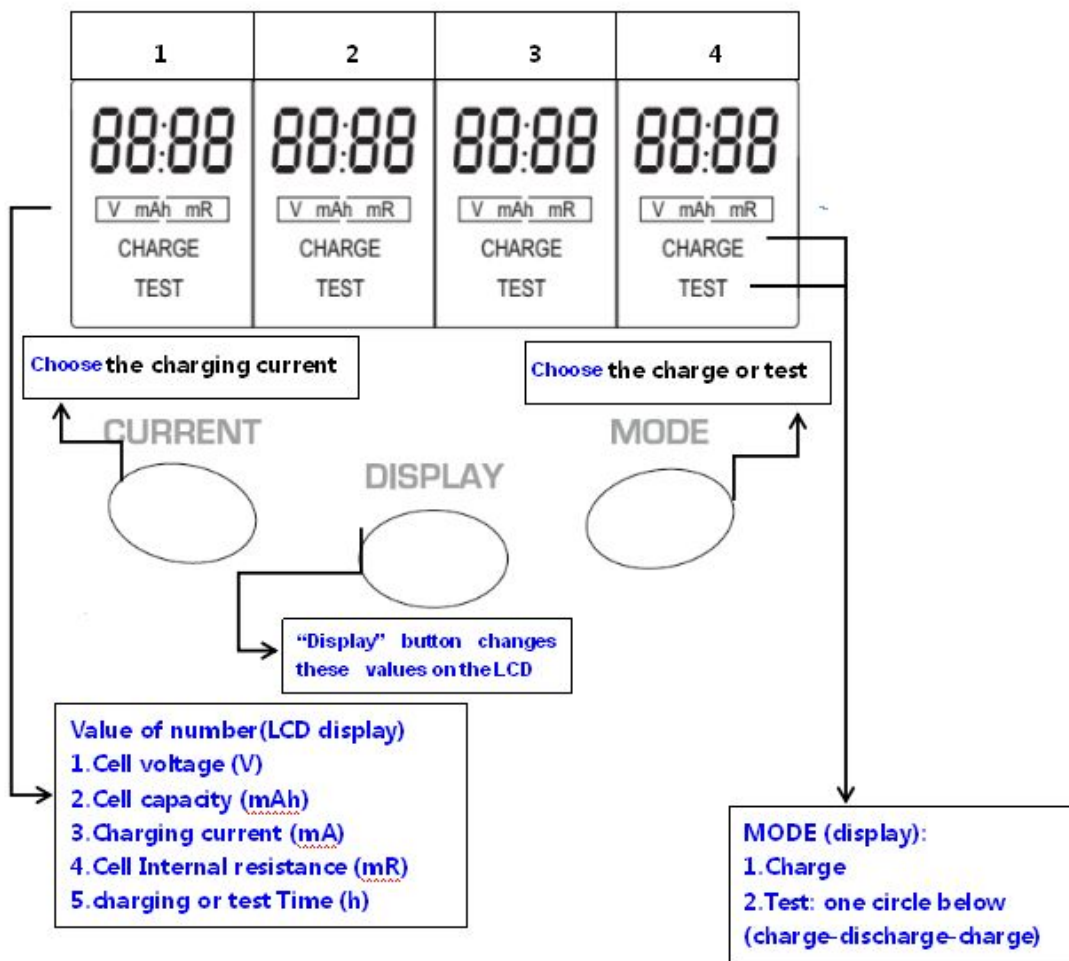
**Buttons:**

1. Battery slot select buttons (1,2,3,4)
2. Mode selection button (MODE)
3. Selection of displayed information (DISPLAY)
4. Charging current selection key (CURRENT)

Display:

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

1. Program (Charge, Test)
2. Battery Voltage (V)
3. Capacity (mAh)
4. Elapsed time (hh:mm)
5. Internal resistance (mR)
6. Charging current (mA)



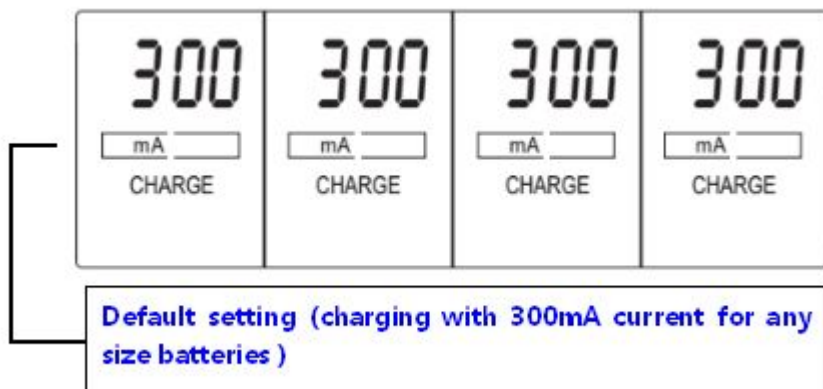
Charge Mode

When connected with power supply, all the LCD display will light on, if there is no batteries inside or bad batteries inside, LCD will show Null.

When put batteries in the charger, the charger will test the internal resistance of batteries about 3 seconds, and then it could automatically choosing charging current 300mA, LCD display will flash with “300mA” for 8 seconds, during 8 seconds, you can choose 300mA/500mA/700mA/1000mA through CURRENT button to charge batteries, and then the system will lock the current you choose and charge after 8 seconds. If there is no choosing current within 8 seconds, the system will automatically charge batteries with 300mA current, and it could not be changed at this time.

If you want to change the charging current, you can replace the batteries, reconnect the power, or hold on the MODE button for four seconds. Then, you could choose the current again.

Under charge mode, you can slightly press DISPLAY button and shift to check the 5 values: charging capacity(mAh)/ charging time(h) /battery internal resistance(mR)/ charging current(mA)/ battery's voltage(V).when the battery is charged fully, it will Display Full and charge End in small size at the bottom line on the LCD display.

**Note:**

Users should be pay attention to the biggest charging current, if there is no need to quick charge, it would be better to charge with 300mA, which is the safest and the most favorable to batteries.

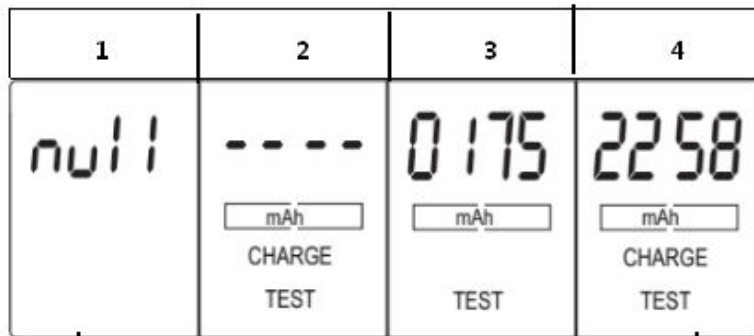
5V USB port: output for phones

When charging the batteries, you also could charge your phone or ipad, but please note that is different from POWER BANK, as you have to connect the power.

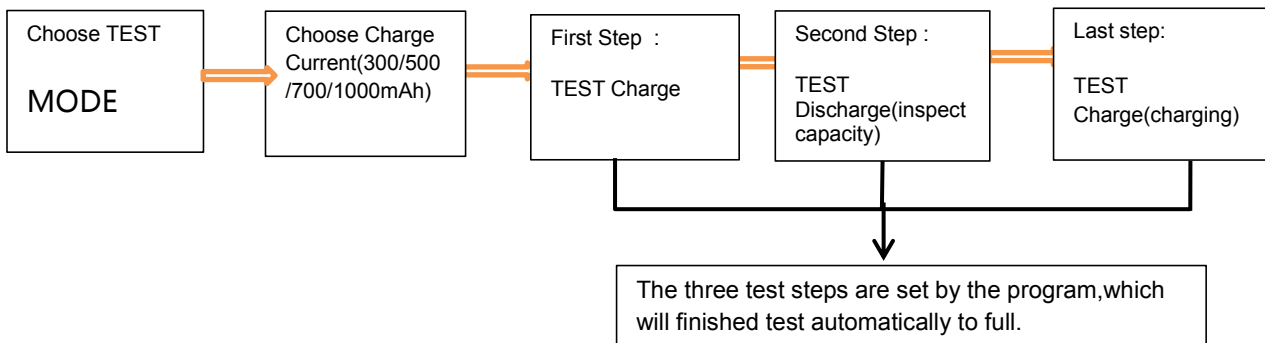


TEST Mode

Fully charge batteries first, and then discharge batteries to record discharging current and test battery capacity, after that the batteries will be fully charged automatically.



Note:
Slot1: "null" displays that bad or damaged battery on this slot.
Slot2: (TEST MODE) It is the first stage (charging), it will charge the battery to full. (It won't display the capacity on this stage)
Slot3: (TEST MODE) Then, Discharging stage, it will discharge, which could test the cell's capacity and display it's capacity on the LCD.
Slot 4: (TEST MODE) Last: charging stage, it display the final capacity on the display.



Enter TEST: Choose the TEST MODE, just need to press the "MODE" before the LCD display stopped flashing, you can see "test charge" on the LCD, it means you enter the TEST MODE.

Then, the charger will finished the all test automatically, it will display "full" when the test was finished.

Choose Charge Current:after entering TEST mode, the display will flash with“300mA”for 8 seconds, at the same time, you can choose 300mA/500mA/700mA/1000mA through CURRENT button. The System will lock the current you choose after 8 seconds,if there is no selection of current within 8 seconds, then the system will automatically charge batteries with 300mA(the current you choose is the current for charging batteries).

The First step of test : this step it will display the “test charge” on the LCD, and it is charging for batteries now.

The second step of test :after fully charged the battery on the first step, the second step, it will only display the “test” on the LCD, but it is discharging for batteries now, this step is to test the batteries capacity truly.

The last step of test : after fully discharged the battery on the second step, the last step will charge the batteries again , it will display the “test charge” on the LCD, you can know the batteries’ final capacity ,voltage and internal resistance.

TEST (Discharge) test capacity:Note: in this step of test, when first step charging with 300ma /500ma, the discharging current is 250mA after fully charged. When first step choose to charge with 700mA/ 1000mA, the discharging current is 500mA, it will record the capacity automatically after finishing discharging. So calculate the battery capacity. When battery voltage discharged into cutoff, capacity test is over.

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

Warning:

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:

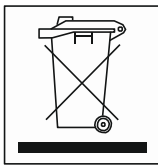
- Use as described in the instructions, only NiCd, NiMH or Li-Ion batteries!
- The device is not approved for outdoor use. Protect it from high humidity, water, rain or snow. Keep the device away from excessive heat and direct sunlight.
- Do not dispose batteries in a fire!
- Do not use other than the 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 authorized battery collecting point.

Technical specification YC5000



Input Voltage	AC Input: 100-240V (for AC Power supply); DC Input: 12V / 3A
Monitoring / Display	LCD display live view with back light: Shows the charge status, capacity, voltage, charge current, operating time and internal resistance.
Display Back light	Yes
Controls	Seven Buttons „ easy to use “ function (easy handling).
Charge Method	CC/CV for lithium types Li-Ion batteries, Delta-peak Sensitivity for NiMH / NiCd
Safety Temp. Control	Charge Cutoff Max. Temperature (75°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: 2.8v/cell
Battery Types/Size	NiCd / NiMH: AA, AAA, A, Sub-C, C Li-Ion: 26650, 22650, 18650, 17670, 18490, 18500, 17500, 17355, 16340 , 14500, 10440
Case Material / Size	Plastic / L: 159mm; W: 92mm; H: 35mm
Weight	203g for charger unit

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

All inquiries :service@youshiko.co.uk

NOTE:

Information and contents in this datasheet are for reference purpose only. They do not constitute any warranty or representation and are subject to change without notice.