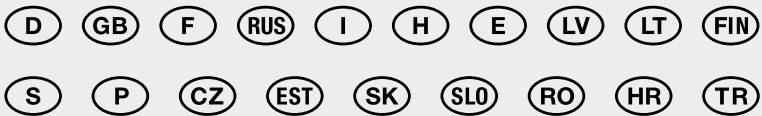


Akku | Battery Management System
ENERGYXG³⁰⁰⁰
★★★★★



D



Testmodus | Test mode

CALC

Kapazität | Capacity

90%

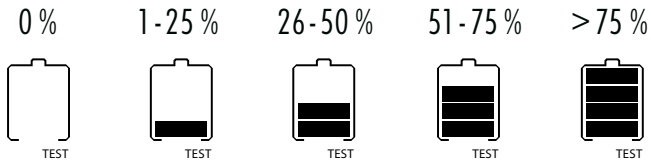
Spannung | Voltage

1.29V

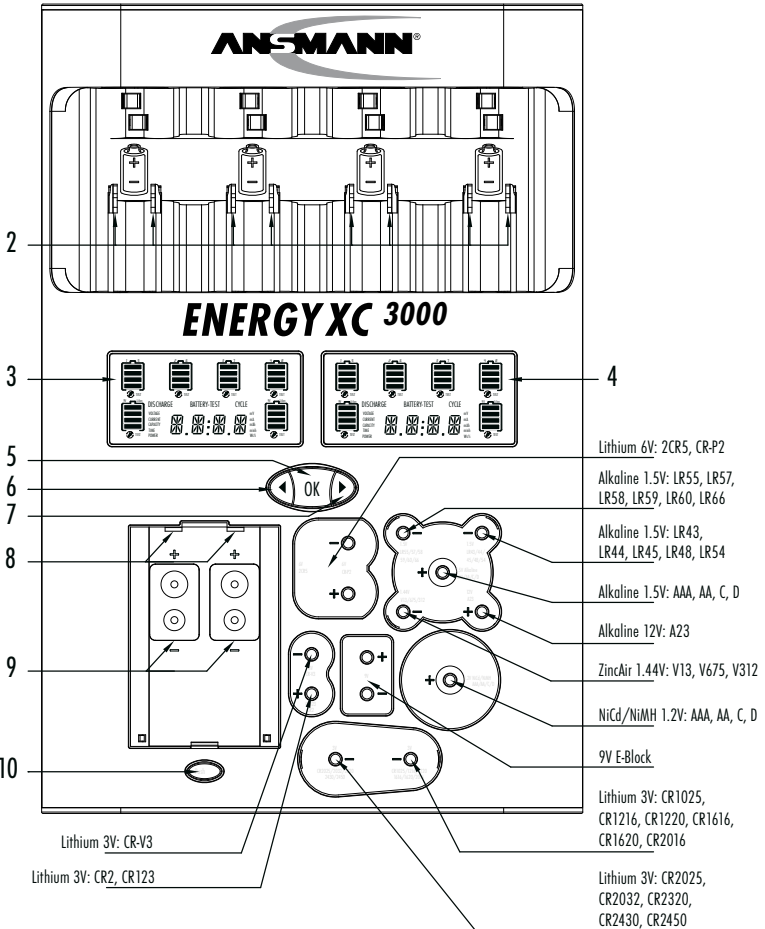
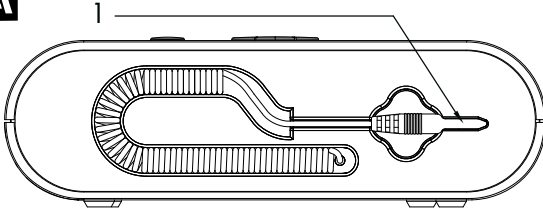
E

Programm Program	Laden Charge	Entladen Discharge	Fertig Ready	Fehler Error
CHARGE				
DISCHARGE				
BATTERY-TEST				
CYCLE				

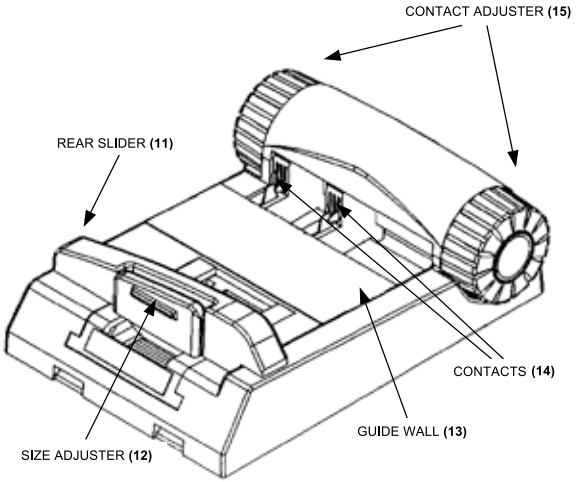
F



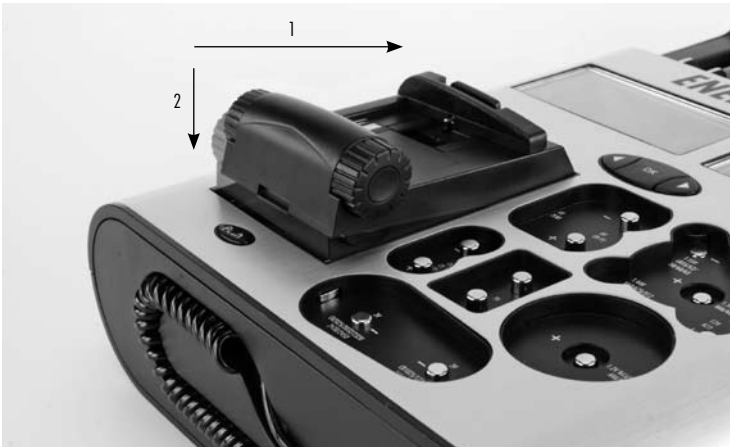
A



B



C



GB OPERATING INSTRUCTIONS**FOREWORD**

Dear Customer,

Thank you for deciding to buy the ANSMANN Energy XC3000 charger. These operating instructions will help you to use all features of your Energy XC3000 charger in an optimum way. Please read the operating instructions carefully before use. We hope you are happy with your new charger.

Your ANSMANN Team

INCLUDED IN SET

- > Charger Energy XC3000
- > Power supply
- > Mains lead
- > Universal adapter plate for connecting Li-Ion/Li-Po batteries
- > Operating instructions

SAFETY INSTRUCTIONS

- > Please read the operating instructions carefully before using the charger!
- > Do not use the device if there are signs of any damage to the housing, mains plug or cable. Please contact an authorised dealer!
- > For charging of round cells and 9V batteries use only with NiCd/NiMH cells. Other types could cause an explosion! Observe polarity (+/-) prior to use!
- > For charging of Li-Ion/Li-Po batteries the universal adapter plate provided must be used!
- > Please note that due to the high charging current, use only good quality batteries from a well known brand in this charger. Using inferior quality batteries could cause damage to the batteries themselves, and/or the charger, if they are not suitable for fast charging. If unsuitable cells are inserted in the charger, warranty claims cannot be accepted and the warranty will become void!
- > Keep the charger in a dry place!
- > In order to avoid the risk of fire and/or electric shock, the charger must be protected against high humidity and water!
- > Before cleaning the unit, disconnect it from the mains and only use a dry cloth!
- > Never attempt to open the charger!
- > Keep away from children's reach!
- > Do not leave the device unattended when in operation!
- > Disconnect device from mains supply after use!
- > If the safety instructions are not followed, it may lead to damage to the device or battery and could cause injury!
- > We recommend the use of ANSMANN rechargeable batteries!

FUNCTIONAL OVERVIEW OF CHARGER

- > Desktop charger for 1-8 AAA or AA cells; for 1-4 C or D cells in addition to 1-2pcs 9V E-Block or 1 Li-Ion/Li-Po battery pack (3.6/3.7V-7.2/7.4V) connected by the universal adapter plate provided.
- > Suitable for NiCd, NiMH, Li-Ion/Li-Po batteries
- > Multifunctional clear LCD display
- > Adjustable charging current (2 steps) for all round cells
- > Automatic charging current adjustment
- > Charge condition is irrelevant before charging
- > Capacity quick test of the inserted cells
- > Individually selectable charging programs per charging slot
 - CHARGE
 - DISCHARGE
 - BATTERY-TEST (charging, discharging, charging)
 - CYCLE (1-10 cycles discharging/charging adjustable)
- > Automatic start of charging within 10 seconds after contact with the battery if no charging program is selected.
- > The selected charging program is displayed on the LCD display
- > Microprocessor controlled charging and supervision of each cell
- > Individual monitoring of critical parameters during charging
 - VOLTAGE (charge/discharge voltage)
 - CURRENT (charge/discharge current)
 - CAPACITY (charge/discharge capacity)
 - TIME (charge/discharge time)
- > Multiple over charging protection
- > Trickle charging for NiCd/NiMH batteries
- > Faulty cell detection and Alkaline detection
- > Wrong polarity protection
- > Switch mode power supply for world wide use (100-240V AC / 50-60Hz)

FUNCTIONAL OVERVIEW BATTERY TESTER

- > Reliable tester for all common batteries
 - > Ultra fast testing result
 - > Indication of the battery voltage and capacity (in 10% steps) by the LCD display
- The following cells can be tested:
- > 1.5V Alkaline cylindrical cells & 1.2V NiCd/NiMH batteries: AAA, AA, C, and D cells
 - > 9V E-block / 12V A23
 - > 1.5V Alkaline button cells: LR43, LR44, LR45, LR48, LR54, LR55, LR57, LR58, LR59, LR60, LR66
 - > 1,44V Zinc-Air button cells: V13, V675, V312
 - > 3V Lithium button cells: CR1025, CR1216, CR1220, CR1616, CR1620, CR2016, CR2025, CR2032, CR2320, CR2430, CR2450
 - > Lithium photo batteries: 3V: CR2, CR123A, CR-V3 / 6V: CR-P2, 2CR5

CHARGER OPERATION (see picture **A**)

Place the charger on a level surface and make sure that the ventilation slots are not covered. Connect the power adaptor to the charger, then connect the power supply to mains (100-240V AC 50-60Hz). The LCD displays and ANSMANN logo glows.

Charging current setting

Before inserting any battery into the charger, it is possible to change the charging current for round cell charging by pushing the button "OK" (5) one time. In the LCD display (3) you will now see the adjusted charging current (delivery status: 2000mA) for charging Mono D, Baby C and Mignon AA batteries. By pushing the button ◀ (6), the charging current can be decreased to 1000mA. By pushing the button ▶ (7), the charging current can be increased to 2000mA. The selected value has to be confirmed by pushing the button "OK" (5) and then the indication in the display is blank. Now the selected current will be used for all future charges, unless changed again! The charging current for Micro AAA batteries is always 25% of the adjusted charging current. For Li-Ion/Li-Po and 9V E-blocks the charging current is not adjustable.

Contact - round cells

To insert round cells, move the silver contact bridge (2) backwards and put in the rechargeable battery at the bottom of the charging slot. Always connect the cells in the right direction for polarity (according to the symbols in the charging slots). The charger is equipped with 4 dual slots for round cells. In each of these charging positions you can either insert 2pcs of Micro AAA or Mignon AA cells or 1pc of Baby C or Mono D cells. When inserting Baby C or Mono D cells both contact bridges must fit closely on the battery and the cells must be located centrally.

Contact - 9V E-block, universal adapter plate and Li-Ion/Li-Po battery packs

In addition to round cells, the charger can also charge 1-2pc 9V E-blocks or 1 Li-Ion/Li-Po battery pack (3.6/3.7V-7.2/7.4V). The charging slots for the 9V E-blocks (9) are located below the LCD display (3). Here the 9V E-blocks to be charged can be easily connected in the right polarity.

Li-Ion/Li-Po battery packs can only be charged by using the provided universal adapter plate. Connect the universal adaptor plate to the charger as shown on picture **C**. Please move the universal adapter plate first into the two projections (8) at the upper end and push it in the direction of the charge station until locked in place. Afterwards please check the correct fixing of the universal adapter

plate. Now the Li-Ion/Li-Po battery pack can be connected as follows (see picture **B**):

1. By pushing SIZE ADJUSTOR (12) you can move the REAR SLIDER (11) to adjust it according to the size of the battery pack. The distance between CONTACTS (14) and REAR SLIDER (11) has to be shorter than the size of the battery pack so that the battery pack will be firmly positioned during charging.
2. Move the REAR SLIDER (11) backwards and insert the battery pack so that the side of the battery pack will touch the GUIDE WALL (13) and the contacts of the battery pack will be in direction of CONTACTS (14). The battery pack will be held now by the REAR SLIDER (11).
3. Move the battery pack in direction REAR SLIDER (11) and adjust the position of CONTACTS (14) by the CONTACT ADJUSTER (15) to the "+" and "-" contact of the battery pack. Push the battery pack back in direction CONTACTS (14) and release. If the adjustment and contacting is correct, the charger will identify the battery pack. The charger will detect the polarity of the battery pack automatically.

To charge 9V E-blocks, the universal adapter plate has to be removed. Therefore press the button "Push" (10) and remove the universal adapter plate.

Capacity quick test and charging programs

After insertion of each battery, the appropriate battery icon in the LCD display flashes and its number "1...8" or battery type "9V" or "Li-Ion" is indicated above the battery icon. In addition "TEST" appears in the display below the battery icon and the voltage of the battery is indicated in display (3). The charge state of the battery will be indicated by the 4 bars inside the battery icon (see picture **D**).

0 bar = battery discharged

1 bar = capacity below 25% of the nominal capacity

2 bars = capacity between 26 and 50% of the nominal capacity

3 bars = capacity between 51 and 75% of the nominal capacity

4 bars = capacity over 75% of the nominal capacity

During this indication, the program CHARGE is flashing (pre-adjustment). By pushing the button ◀ (6) or ▶ (7), you can change to the other programs like DISCHARGE, BATTERY-TEST or CYCLE. The selection will flash for 10 seconds and then the selected program starts automatically if the button "OK" (5) is not pushed before. Each push of the button ◀ (6) or ▶ (7) within 10 seconds or each insert of any battery re-starts the 10 seconds again. If several batteries are inserted consecutively, the same charge program will be

used for these batteries.

Description of charging programs:

(see picture )

CHARGE

Battery will be charged (battery icon is filled up from bottom to top); when the battery is fully charged, the charged capacity will be shown in the LCD display (3)

DISCHARGE

Battery will be discharged (battery icon is emptied from top to bottom); when the battery is discharged, the discharged capacity will be shown in the LCD display (3)

BATTERY-TEST

Battery will be charged, discharged and charged; when the battery is fully charged, the discharged capacity will be shown in the LCD display (3)

CYCLE

Battery will be charged and discharged with the adjusted number of cycles (1-10); the pre-adjustment of cycles is 3 but by pushing the button ◀ (6), the number of cycles can be reduced and by pushing the button ▶ (7), the number of cycles can be increased. After the last cycle, the battery will be fully charged and the last discharged capacity will be shown in the LCD display (3)

Description of the LCD display:

The number "1...8" or battery type "9V" or "Li-Ion" above the battery icon indicates which battery currently is selected. The display (3) indicated value always refers to the currently selected battery. By pushing the button ◀ (6), the previous battery or by pushing the button ▶ (7) the next battery can be selected. After choosing the respective battery, it can be selected by pushing the "OK" (5) button. Then the icon of the selected battery and the currently indicated value in the LCD display (3) will flash. By pushing the button ◀ (6) or ▶ (7) another parameter can be indicated. The following parameters can be selected:

VOLTAGE Indication of the current battery voltage in V

CURRENT Indication of the current charge-/discharge current in mA

CAPACITY Indication of the current charged/discharged capacity in mAh

TIME Elapsed time of the current process

While a charge program is running, always the VOLTAGE of the selected battery is indicated. When the charge program for one battery ends, the indication switches automatically in the view of this battery and shows the CAPACITY in the LCD display (3). Another battery can be selected at any time by pushing the button ◀ (6) or ▶ (7).

Additional information



The charger is cooled by built-in fans. The fans run when at least one round cell is charged or discharged. It is normal that batteries may become warm during charging. After charging of round cells and 9V E-Blocks is complete, the charger switches automatically to trickle charge.

BATTERY TESTER OPERATION

Once the charger is connected to mains, the battery tester is ready for use. It is possible to charge rechargeable batteries in the charger and to test batteries or rechargeable batteries at the same time.

How to make measurements:

In the front of the charger is the test pin (1), which is only needed for testing of round cells.

1. Select the appropriate test terminal for the battery under test (see picture )
2. Place the battery on the corresponding test terminal, paying attention to the polarity (both contacts must be connected). When checking round cells, the test pin (1) always has to be connected to the negative pole of the battery!
3. After both poles of a battery are contacted, in the display (4) appears "CALC" (for about 2 seconds). Then the capacity of the battery will be shown in 10% steps for approx. 2 seconds and for further 2 seconds the voltage of the battery will be shown. As long as the battery is contacted, the display changes between capacity and voltage (see picture )

Make sure that the contacts of the test terminals and the contacts of the batteries are clean. With a new battery it is possible that the full capacity may not be shown. The battery needs to "wake up". In this case please repeat the test again.

ENVIRONMENTAL COMMENTS

Do not dispose of the device in the normal household waste. Please return it to your dealer or to your nearest recycling centre or collection point. Please recycle all packing materials for the sake of the environment.

CARE & MAINTENANCE

To make sure that the charger works properly, please keep the contacts in the charging slots free from dust or contamination. To clean the unit, disconnect it from the mains and use only a dry cloth. Repair may only be undertaken by competent authorised dealers!

TECHNICAL DATA

Input voltage: 100-240V AC 50-60Hz (power supply)

Output voltage: 8x 1.45V DC; 2x 10.15V DC; 1x 3.6-7.4V DC (charger)

Charging current:

Mono D: 4x 2000mA or 1000mA

Baby C: 4x 2000mA or 1000mA

Mignon AA: 8x 2000mA or 1000mA

Micro AAA: 8x 500mA or 250mA

9V E block: 2x 75mA

Li-Ion/Li-Po: 1x 700mA

FAULT DIAGNOSIS

The charger has no function:

- > check if the mains lead of the power supply is correctly connected to the power outlet and if the output cable of the power supply is correctly connected to the charger
- > check if the outlet has power; connect another functional electrical device to check the power outlet

The inserted battery is not being charged:

- > check if the batteries are inserted with the correct polarity; cylindrical batteries have to be inserted as per the battery symbol engraving in the charging slot
- > ensure that you inserted suitable rechargeable batteries into the charging slot; suitable batteries for charging are only NiCd/NiMH battery types of AAA, AA, C, D, and 9V block as well as Li-Ion/Li-Po battery packs which can only be charged by using the provided universal adapter plate
- > check for Li-Ion/Li-Po battery packs whether the universal adapter plate is connected in the right way and whether the contacts of the adapter plate are in the correct position to contact the battery pack
- > when the display shows the error symbol (see picture **B**), the battery is defective or a non rechargeable battery was inserted

Other problems

- > please contact us (address see last page of this operating instructions)

DISCLAIMER

Information in these operating instructions can be changed without prior notice. ANSMANN cannot accept liability for direct, indirect, accidental or other claims or consequential damages originated by using this charger and information given in these operating instructions.

WARRANTY NOTICE

We hereby offer a 3 year warranty on this charger. This does not apply to damage caused by low-quality batteries leaking inside the charger.

Technical details subject to change without prior notice.

No liability accepted for typographical errors or omissions.

08/2008