



## Short description of the product

The Akyga® AK-BC-01 microprocessor battery charger is used to simultaneous charging of up to 4 batteries with individual control of each cell. The battery charger is compatible with Ni-MH AA (R6) and AAA (R03) batteries. It has multifunctional LCD display which shows the status of each battery separately and warns about placing the batteries in wrong polarity. It has also a set of protectors OVP, OTP, OPP, SCP, OCP and additional safeguards to protect against: improper placement of the battery in the charger, overcharging of the battery, overheating of the cells (60°C), placement of damaged or incorrect cells and effects of short-circuit and overload.

The product is adapted to supply voltage in the range of 100-240V, 50/60Hz.

The power consumption of charging battery can not exceed the charger nominal current.

The product is compatible with the applicable national and European requirements.

## What is in the box?

- AK-BC-01 battery charger
- Power cord

## Symbols explanation:



There is a particular danger connected with service.



There is a risk of losing health or life (e.g. by electric shock).



Important tips and information.



The CE standard description on the product is the manufacturer's declaration that the marked product meets the requirements of the directive so-called The "New Approach" of the European Union (EU). For security and certification (CE) reasons, the device can not be rebuild or change in any way. In the reason of using the power supply for other purposes than those described, the product may be damaged. The incorrect use may also cause hazard such as short-circuits, burns, electric shocks, etc. Read the users manual carefully and keep it for later use. The product could be share to third partie only with the user manual included.



Product accordance with the EU directive 2002/96/EC. The symbol of the crossed out basket placed on the product means that the marked product can not be disposed of with other household waste. After use, the product must be return to collection point for used electrical and electronic equipment or to the seller. Appropriate segregation of rubbish for subsequent processing, recovery or descruption contributes to avoiding negative effects on the environment and health, and also allows the recovery of raw materials from which the product is made.



The RoHS mark on the product is the manufacturer's declaration that the marked product meets the requirements of the EU Restriction of Hazardous Substances (2002/95/EC) directive, which aims to reduce the amount of hazardous substances penetrating into the environment from electrical and electronic waste.



The II protection class device. It provides protection against electric shock against direct and indirect contact, and thanks to the additional isolation it is not necessary to connect the device case with the protective earth conductor.



The device is intended only for domestic use, indoors.

## Safety Precautions



**WARNING!** Product heats up during operation. To reduce the risk of burns or overheating the power supply, do not place it in restricted ventilation area. Also, do not allow the working charger to touch soft surface such as pillows, blankets or clothing. The battery charger meets the limits on the surface temperatures available to the user, as defined in the International Standard for Safety of Information Technology Equipment (IEC 60950).



An electrostatic discharge occurs when two object touch each other, for example, an electric charge that occurs when user touch metal door handle after walking on a carpet . Discharging electrostatic charges from fingers or other electrostatic conductors can damage electronic components. To avoid damaging the batteries, abstain from touching electrical outlets, wires and electronic circuits. The user's contact with electronic components should be kept to a minimum.



**The manufacturer of the product is not responsible for damage or insults caused in effect of disobey the safety instructions and informations contained in these user manual.**



- Keep the product and the packaging out of range of children and animals. The package includes a foil that child could choke while playing.
- It is forbidden to apply the mechanical load to the product - strong shocks, impacts, dropping or crushing may cause its damage.
- The product operation in adverse conditions is not allowed. Adverse conditions are primarily: exposure to direct sunlight, high or very low ambient temperatures, strong vibrations, high humidity, surrounds of gases, dusts or flammable and aggressive liquids.
- If the product has been damaged, does not work properly or has been stored for a long period of time in bad or unfavorable conditions, safe operation of the device is not possible. It is essential to stop using the product and to protect it against re-use for security purposes.
- Product and power cord should not be touched with moist or wet hands under no circumstances.
- Short-circuiting the current connection is prohibited.
- Make sure that the power cord is not crushed, bent, twisted, rubbed against sharp edges or mechanically loaded in any other way. Avoid thermal load of the cable - in particular keep away from heat sources (such as stoves, radiators, fireplaces).
- Power cords should be laid in such a way as to eliminate the risk of stumbling or hooking over.
- It is forbidden to modify the power cord. In the case of modifications, the cable may be damaged, causing threats to life, health and property.
- It is forbidden to charge other types of batteries than AA/AAA, because it can cause explosion, electric shock and personal injury.
- Before connecting the charger to the mains socket, make sure that the voltage specified on the charger matches voltage supplied to the household socket.
- Connection of the charger to electricity is done by connecting added cable with the IEC C7 plug to charger with IEC C8 connector and then connecting appropriate plug to grounded electrical outlet.
- Mains plug should be disconnect from power socket if the product is not in use for a long time.
- When disconnecting the power cord from the socket and from the device, do not pull on the cord, but only on the part of the cable plug provided for this purpose.



- Short-circuiting the current connection is prohibited.



- In case of any doubts regarding operation, safety or connection of the product, please contact the manufacturer or a qualified specialist for this purpose.
- All maintenance, adjustment and repair work on the product may only be carried out by a qualified person in a specialist facility.

## Removing the most common problems

Problem	Cause	Solution
A cell connected to an electrical outlet via charger does not charge	No mains voltage	<ul style="list-style-type: none"> <li>• Check the correct connection of the charger to the mains socket</li> <li>• Check the mains fuses</li> </ul>
	The battery charger is overloaded	<ul style="list-style-type: none"> <li>• Disconnect the charger from the power network, check the correctness of the current parameters</li> </ul>
	Incorrect placement of the cell in the charger	<ul style="list-style-type: none"> <li>• Place the cell according to the polarity marked on the charger</li> </ul>
	There is a suspicion of a product defect	<ul style="list-style-type: none"> <li>• Stop using and contact the seller</li> </ul>

## Preparing the Battery Charger for Use:

1. Connect the charger via added power cord to the electrical outlet.
2. Place the cells in the battery charger. Make sure that the cells are correct placed in the charger.
3. The progress of the charging process is displayed on the LCD display.
4. The full battery symbol signals that the battery has been charged.
5. After charging the cells, disconnect the charger from the mains socket, then remove the cells.

## Cleaning the power supply



- Disconnect the power supply from the electrical socket and connected devices before cleaning.



- Use soft and antistatic cloth for cleaning the battery charger.
- Do not use abrasive or chemical cleaners.

## Technical specification

→ Product code:	AK-BC-01
Supply voltage:	100-240 V, 50/60 Hz
Output voltage:	1.2 V DC
Output amperage:	AA 1800 mA, AAA 900 mA
Temperature:	0-35 °C
OVP (over voltage protection):	Yes
OCP (over current protection):	Yes
OPP (overpower protection):	Yes
OTP (over temperature protection):	Yes
SCP (short circuit protection):	Yes
Charger connector:	IEC C8
Cable length:	0.5 m
Material:	ABS
Product size:	109x68x29 mm
Compliance with standards:	CE, FCC, RoHS
REACH compatibility:	YES
EAN code:	5901720132741

battery charger

Product manufacturer:

Akyga Europe sp. z o.o.  
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52-200 Suchy Dwór