

ICH-SC4

Smart Charger

QUICKSTART GUIDE



What's Included

- 1 x Battery Charger
- 1 x Power Adapter
- 1 x Quick Start Guide

ikan

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CHECKED BY

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1. Introduction

This high-end smart charger is intended to charge NiCd, NiMH, and Li-Ion batteries. Each charging slot includes an independent LCD display that shows the corresponding battery's voltage. One button controls the charging current for all slots. Charging currents from 300, 500, 700, and 100mA may be selected.

The ICH-SC4 can charge batteries of different type, size, and of different capacities simultaneously. Included is a minus delta voltage (-DV) function, which monitors the voltage over the charging cycle, and provides a more precise (full charge) detection than temperature based methods. This helps charge and keeps the battery at its optimum capacity. The ICH-SC4 also includes overheat detection to protect rechargeable batteries, and the charger itself, from overheating. The charger should only be powered by the included power supply. Only operate and store the charger in a dry, indoor environment. This product fulfills European and international requirements related to electromagnetic compatibility (EMC). CE conformity has been verified, and the relevant statements are available upon request. Unauthorized conversion and/or modification of this device is prohibited because of safety and CE approvals. Any usage other than described above is not permitted, can damage the product, and can lead to safety risks such as short-circuit, fire, electric shock, etc.

Please read the operating instructions thoroughly and keep them for future reference.

2. What's Included

Battery Charger (1 pc)
Power Adapter (1 pc)
Quick Start Guide (1 pc)

3. Safety Instructions

We do not assume liability for resulting damages to property or personal injury if the product has been abused in any way, damaged by improper use, or through failure to observe these operating instructions. Failure to follow these instructions will void all warranties! If you do not agree with these conditions, return the complete charger, unused and in its original packaging to the place of purchase immediately.

A. Product Safety

1. Sufficient ventilation is essential when operating this charger. Never cover the ventilating slots of the charger. Do not use this charger if the temperature is over 95° Fahrenheit (35° Celsius).
2. DO NOT EXPOSE this product to magnetic fields, sources of extreme temperatures, heat, or fire.
3. There may be an explosion hazard if this battery charger is used improperly. In order to reduce the risk of fire or burns, do not disassemble, crush, puncture, short external connections, expose to heat or throw the charger in fire.
4. Protect the power cord to avoid tripping, particularly at plugs, sockets and other locations.
5. When not using this product for an extended period, please remove all batteries, wrap it in dust-proof packaging and place in a dry environment.
6. DO NOT EXPOSE the batteries or charger to excessive heat sources, such as sunlight, heaters, microwaves, ovens, stoves, radiators, fire, or other instruments that produce heat (including amplifiers), or similar factors.
7. DO NOT EXPOSE this charger to rain, snow, or dripping or splashing liquids.
8. In order to avoid short-circuiting the battery and getting burns and other physical injuries due to the battery overheating, do not place conductive objects at the battery's electrical terminals, or in contact with the battery ends.
9. This product is only intended to charge NI-MH/Li-ion batteries. If used to charge other batteries, it may cause issues including: battery crack or leakage, or safety incidents.
10. The product should not be connected immediately after it has been brought from an area of cold temperature to an area of warm temperature. Condensed water may destroy this product. Wait until the product adapts to the new ambient temperature before use.

B. Battery Safety

1. ALWAYS inspect batteries before charging.
2. NEVER charge any batteries that show any signs of damage, disfigurement, discoloration, deformation, abnormal heat, swelling, or other phenomena.
3. NEVER charge batteries that have any breach of their protective cover.
4. If battery discoloration, deformation, abnormal heat, or other phenomena occurs, please stop using and replace the battery.
5. If the batteries leak, do not allow the liquid to come in contact with the skin or eyes. If the liquid does come in contact with the skin or eyes, wash affected area with water immediately and seek medical treatment.
6. The manufacturer's instructions for the respective batteries must be observed before they are charged.
7. Correct polarity must be observed while inserting the batteries.
8. Non-rechargeable batteries, rechargeable alkaline batteries (RAM), lead acid batteries and lithium batteries must not be charged with this product.
There is a danger of explosion!
9. If it is not going to be used for a long period of time, batteries should be removed from the charger to avoid damage through leaking. Leaking or damaged batteries might cause acid burns when in contact with skin. Use suitable protective gloves to handle corrupted batteries.
10. Batteries must be kept out of reach of children. Do not leave batteries lying around, as there is a risk that children or pets may swallow them. Batteries must not be dismantled, short-circuited or thrown into fire.
NEVER recharge non-rechargeable batteries. There is a risk of explosion.

C. Miscellaneous

1. There are no serviceable parts. Do not take apart or disassemble the charger.
2. **WARNING: CHOKING HAZARD** - This product may contain small equipment and parts. Keep the device and its accessories out of reach of children as they may damage the device or swallow small parts.

4. Power Supply

Never attempt to power the charger from an AC outlet without the use of a proper AC to DC adapter/power supply. Only use the included power adapter for this charger. On initial power up of the charger, all LCD segments will light up momentarily. The “null” icon will be shown until any batteries are inserted.

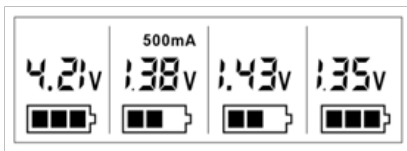
5. Operation

Once a rechargeable battery is inserted, a voltage is shown and a charging current will be displayed (For example, “1.37V” and “500mA”). If the MODE button is not pressed, the charging process will start with a 500mA charging current. When you need to change the charging current, press the MODE button for 3 seconds, then the current will be changed. Every time you want to change the charging current, press and hold the MODE button for 3 seconds.

6. Overheat Protection

When overheating occurs (temperature over 140°F / 60°C), the charging process will be stopped immediately and the charging current display will show “NULL”. The charging process will terminate.

7. Operation Mode & Display



8. Maintenance

The device is maintenance-free, but should be cleaned occasionally. When cleaning, the device must be removed from any power source. Use only a dry and soft cloth to clean the housing of the charger. Do not use abrasive chemicals or solvents.

ICH-SC4 Specifications

Supply Voltage	DC 12V/2A
Power Consumption	18W Max
Compatible Battery Types	NiCd, NiMH, Li-Ion
Compatible Battery Sizes	AA, AAA, C, SC size Ni-MH/CD battery, Li-ion: 18650, 18350, 18490, 26650, 26500, 22650, 17670, 17500, 17335, 16340, 123A, 14500, 10400
Available Charging Current	300mA, 500mA, 700mA, 1000mA <i>(4 Slots total)</i>
Charging Method	Minus Delta Voltage (-dv)
Protection Against Battery Overheating	Yes
Protection Against Memory Overheating	Yes
Battery Discharge Function	No
Power Bank Function	Yes
Backlight LCD	Yes
Device Operation Modes	Single Button Operation

9. Disposal

1. This product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of electrical and electronic equipment waste. The crossed-out wheeled bin indicates the product needs to be disposed of separately and not as municipal waste.
2. Used batteries/rechargeable batteries disposal: The user is legally obliged to return used batteries and rechargeable batteries according to local regulations. Disposing used batteries with household waste is prohibited! Batteries/rechargeable batteries containing hazardous substances are marked with the crossed-out wheeled bin. This symbol indicates that the product is prohibited to be disposed of with regular waste.
3. The chemical symbols for the respective hazardous substances are Cd=Cadmium, Hg=Mercury, Pb= Lead. You can return used batteries/rechargeable batteries free of charge to any collecting point provided by your local authority.

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More dynamic information at official website: www.ikancorp.com

Support

Contact email: support@ikancorp.com

CONDITIONS OF WARRANTY SERVICE

- Free service for one year from the day of purchase if the problem is caused by manufacturing errors.
- The components and maintenance service fee will be charged if the warranty period is expired.

Free Service will not be Provided in the Following Situations: (Even if the product is still within the warranty period.*)**

- Damage caused by abuse or misuse, dismantling, or changes to the product not made by the company.
- Damage caused by natural disaster, abnormal voltage, and environmental factors, etc.