

Battery Charger Specifications

Customer _____

Part name battery charger

Model No **PK-8146**

Serial No _____

Produce No _____

Approved by	Checked by	Prepared by

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1. Outline

1.1 Range of Application

This specification applies to relative features of PK-8146 charger, including electric, appearance, mechanical characteristics and external environment.

2. Product Features

- Micro USB input
- Microcomputer IC controls charging process: CC/CV/Trickle charging, to make sure the battery is full charged and won't be over charged; each slot controls independently;
- Each slot corresponds to a red and green two-color LED to display the charging status in real time.
- Applicable batteries
- Access 1 to 4 AA or AAA NiMH batteries
- Adopt Negative voltage control technology to improve charge efficiency.

3. Environment Condition

Using indoor

Operating Temperature	0°C-35°C	Storage Temperature	0°C-40°C
Operating Humidity	35%-95%	Storage Humidity	45%-85%
Testing Temperature	25°C±10°C	Atmospheric Pressure	70-106Mpa

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4. Electric Features

4.1 Input Feature

5V/2A Micro USB

4.2 Output Features

1.53V 0.4A*4

4.3 Charging Instruction Mode

Red and green two-color indication, the power-on indicator lights up in green, charging red, full of green

4.4 Charging Control Mode

charging method: pulse constant current

5. Reliability Test

5.1 High Temperature Test

Test temperature: 45°C ±5°C, last time: 5 hours (no package)

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Retest the appearance, insulation strength, indicating functions and charging features after putting in normal temperature. There are no scratches and other damages; there is no rust in outside metal. It is normal in indicator and electricity functions.

5.2 Low Temperature Test

Test temperature: $-10^{\circ}\text{C} \pm 3^{\circ}\text{C}$, last time: 8 hours (no package)

Retest the appearance, insulation strength, indicating functions and charging features after putting in normal temperature. There are no scratches and other damages; there is no rust in outside metal. It is normal in indicator and electricity functions.

5.3 Constant Voltage Thermal-Humidity Test

Test temperature: $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Humidity: 90%~95% last time: 8 hours (no package)

Retest the appearance, insulation strength, indicating functions and charging features after putting in normal temperature. There are no scratches and other damages; there is no rust in outside metal. It is normal in indicator and electricity functions.

5.4 Vibrating Test

Frequency: 10~55Hz Amplitude: 0.35mm Circulation times in each direction: 10 times

Retest the appearance, insulation strength, indicating functions and charging features after putting in normal temperature. There are no scratches and other damages; there is no rust in outside metal. It is normal in indicator and electricity functions.

5.5 Falling Test

Height: 1000mm test-bed thickness: 20mm (hard wood) six side: once per direction

Retest the appearance, insulation strength, indicating functions and charging features after putting in normal temperature. There are no scratches and other damages; there is no rust in outside metal. It is normal in indicator and electricity functions.

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6. Appearance Features

6.1 Size

Charger: 86mm*71mm*36mm(L*W*H)

6.2 Weight

Charger: 67g(Without batteries and power cord)

6.3 Appearance

No scratch, blot, burrs, fissure and rust

7. Actual Charging Description

7.1 Plug charger in socket; charger begins working after check itself.

7.2 This product can charge 1-4 AA AAA Ni-MH batteries.

8. Packaging & Storing

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8.1 Packaging

- A. Plastic bag or bubble bag
- B. Neutral box

8.2 Storing

- A. Under the environment temperature during 0°C-40°C;
- B. Clean, dry and ventilating indoor;
- C. Avoid contacting with corrosive material.
- D. Stay away from fire and heat source

9. Using Tips

9.1 Warnings

- A. This product charges only for Ni-MH/ Ni-CD battery . If charging other batteries maybe lead to explode, break the batteries or weep and make personal injury and property loss.
- B. Using charger in the wrong way maybe gets an electric shock.
- C. Use the battery indoor and do not in the rain or snow.
- D. Do not break or assemble the charger.

9.2 The Do's and Don'ts

- A. Do not put heavy stuff in the charger.
- B. Children should be supervised by adults during using the charger.
- C. Use the charger in the temperature of 0°C-35°C



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