



1 Scope:

This specification is applicable to Pairdeer Battery Charger for 2 or 4 AA/AAA Batteries, PSC001, distributed by ZHONGYIN (NINGBO) BATTERY CO., LTD.

2 Product Features

2.1 Battery Type

Suitable for 2 or 4pcs AA/AAANi-MH/Ni-Cd batteries.

2.2 Reverse Polarity Protection

The electrical circuit protects the charger and batteries from being damaged by incorrectly installed batteries.

2.3 Zero Voltage Jump Start

Restore the battery if the battery voltage is 0V

2.4 Low Battery Leakage Current

If the battery charger is not connected to input power and left in the charger, the charger will discharge the batteries using a pre-determined current.

3. Electrical Performance and Tests

3.1 Input voltage

100-240VAC, 50/60Hz, 4.5watt max

3.2 Charging voltage

Two (2) independent 2.8VDC channels, each channel charges two (2) batteries. Batteries could be charged only in pairs.

3.3 Charging current

AA: 250mA \pm 30mA

AAA: 120mA \pm 30mA

3.4 Trickle Charge current

AA/AAA: 10mA \pm 5mA

3.5 Charging Time Control.

for AA/AAA : 10 \pm 1 hours

3.6 Input standby current

Maximum 10mA

3.7 Input loading current

Maximum 50mA

3.8 Charging Indicators

Red indicates CHARGING

Green indicates batteries are FULL



3.9 Hi-pot Test

Apply 3750V AC between input plug and charging channel for 1 minute. Current leakage must be less than 5mA. After the test, the unit should still work as normal.

3.10 Insulation Resistance

Minimum 100M ohms @ DC500V

4 Mechanical Tests and Requirements

4.1 Drop test

Drop from a height of 6 feet onto a concrete floor covered with 1/8 inch vinyl tile. Drop 3 times total, each time on a different product surface.

Expected result: The unit should meet section 3.9 requirements.

4.2 Surface

Damage and rusting are not permitted.

5 Environmental Conditions

5.1 Operating Temperature

0°C to 40°C, best at 25°C

5.2 Storage Temperature

-20°C to 65°C, best at 25°C

6 Safety and Environment Regulations

CE/ROHS compliant

7 Product Inspections

7.1 Inspections of all products

- Charging voltages (3.2)
- Charging current (3.3)
- LED indicators (3.8)
- Hi-pot (3.9)
- Surface (4.2)
- Outside intense vibration
- Polarity of charging channel

7.2 Inspections of selected products

- Battery charging test
- Drop test (4.1)

8. Cautions

- Children should use product only under adult supervision.



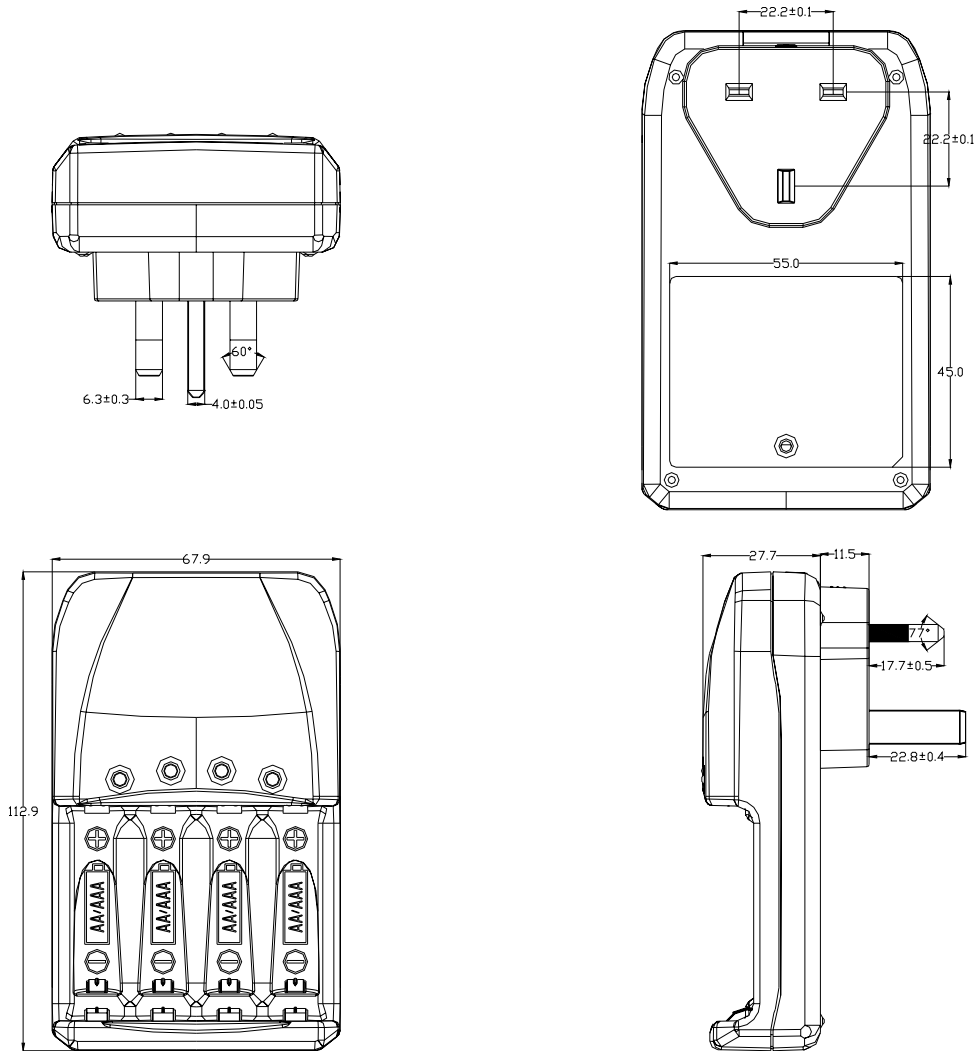
- Mixing batteries of different capacities and sizes in the charger may influence the charging times or damage the batteries.
- Correctly insert the batteries and avoid reversing the +/- polarities.
- Cut off power after the batteries are fully charged.
- The charger is intended for use with Ni-MH/Ni-Cd batteries only. Charging other battery types may cause explosions, breakage, personal injury or property damage.
- Incorrect use may result in electric shock
- For indoor use only. Keep away from humid and hot places.
- Do not disassemble or reassemble the charger.

9 Charging Times

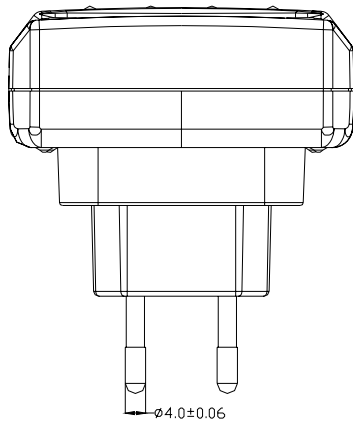
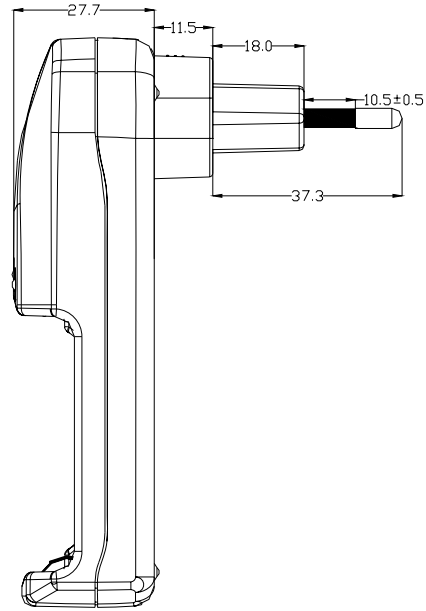
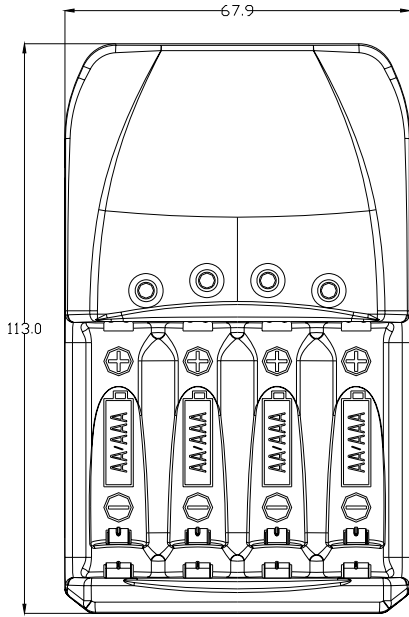
Battery Type	Battery Capacity	Charging Times (Approximate)
AA Ni-MH	2000mAh	9.6h
AA Ni-MH	1500mAh	7h
AAA Ni-MH	600mAh	6h
AA Ni-Cd	1000mAh	5h
AA Ni-Cd	850mAh	4h
AAA Ni-Cd	300mAh	3h

10. Mechanical Drawing

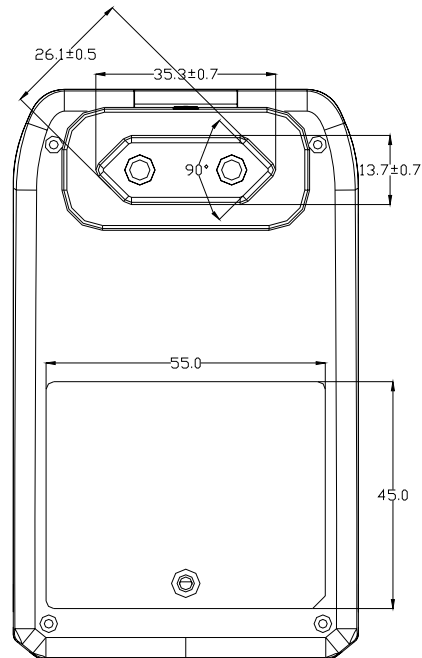
Unit: mm

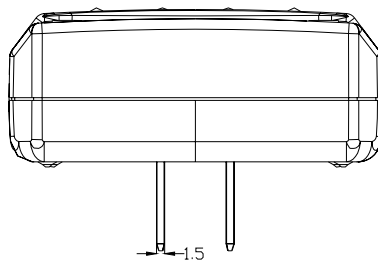
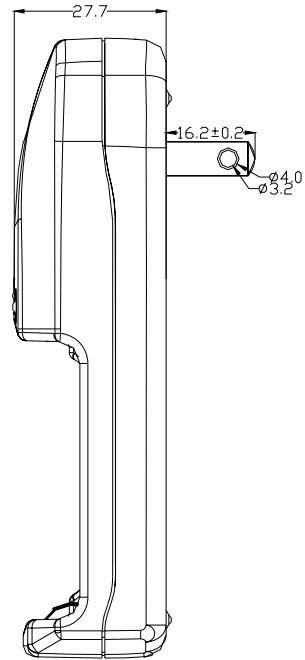
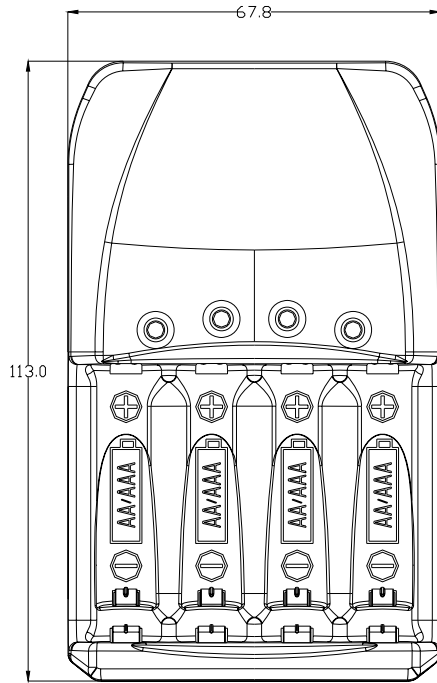


UK Plug

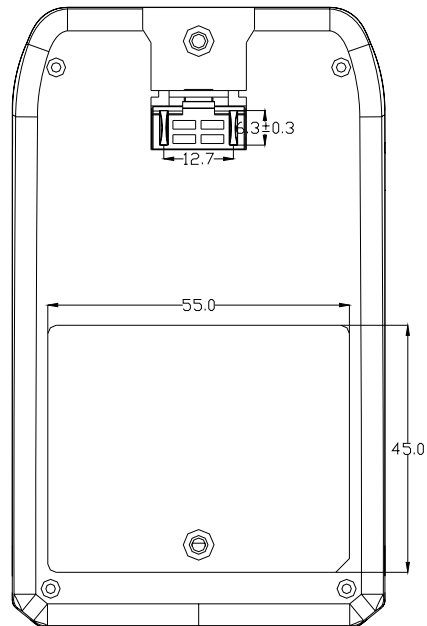


VDE Plug





UL Plug



11 Figure of Unit Product Sales Packaging





History and Deviation of Revision

Revision History

Revision	Date	By	Description of Change
A0	2008-8-15		New release