



1 Product Features

1.1 Application Range

Suitable for 1~4 pieces of AA / AAA Ni-Cd or Ni-MH batteries

1.2 Microprocessor Controlled

1.2.1 –Delta v cut off

The charger stops charging once the microprocessor detects the batteries are fully charged.

1.2.2 Timer Protection

For safety use, charging termination is also controlled by timer.

1.2.3 Defective and Non-rechargeable battery detection

Safety Protection for using the charger if you attempt to charge defective or non-rechargeable batteries, If you charge non-rechargeable and rechargeable together, detection may not work properly.

Charging rechargeable alkaline batteries may result in battery leakage.

1.3 Other protections

1.3.1 Reverse Polarity Protection

Protects the charger and batteries against incorrectly installing batteries.

1.3.2 Over Current Protection

Maintains constant charging current during the charging cycle.

1.3.3 Over Temperature Protection

Protects the batteries from being damaged by overheating, the charging will automatically terminate when the temperature of charger or battery reach to $65^{\circ}\text{C} \pm 5^{\circ}\text{C}$.



1.4 Low Battery Leakage Current

If the battery charger is not connected to AC power and the batteries are left in the charger, the charger will discharge the batteries in a certain amount of current.

1.5 Trickle Charge After Full Charge

After batteries are fully charged, there will still be a small pulse charge current applying to batteries.

1.6 Refresh function

The charger has the pre-discharge function, when the battery is discharged to 1.0V, the charger can automatically switch to charging status to charge the battery.

1.7 Individual LCD display the Charging process

The grid of battery figures rolling in charge status indicates *the battery is CHARGING correspondingly. If the battery has been charged for 50% nominal capacity, the first grid will stop rolling; If been charged for 75% nominal capacity, the second grid will also stop rolling; and If been fully charged, the third grid will stop rolling and display full power and end charging.*

If you need to pre-discharge the battery, switch to discharge status, the LCD will display *the battery is in*



Technical Specification

Model:JPC-808F

refresh process, after the battery discharge to 1.0V, the charger can automatic switch to charging.



2 Electrical Performance and Technical Parameter

2.1 Input

100~240V AC 50/60Hz 10W or Car 12V or USB 5.0v

2.2 Charging Currents

800~1000mA

2.3 Charging Voltages

1.4V DC For individual charge

2.4 Battery Leakage Current

Maximum 0.5mA

2.5 High-Voltage Shock Test

Method: Connecting high voltages 3000VAC for 1 minute between input and output terminals.

Requirement: Current leakage between input/output must be less than 10mA, and the unit should still work as normal.

3 Mechanical Tests and Requirements

3.1 Drop test

Drop from 3 feet height onto an oak board of 10 mm thick. The test shall be carried out 3 times respectively in 3 different surfaces of the case.

Requirement: The charger should still meet High-Voltage Shock Test.

3.2 Bending test (Electrical cord)

Loading: The plug and S/R should withstand weight of 200 gram.

Cycles: Swing 120° left to right for 1000 cycles.

Speed: 20 cycles/min.

Expected result: The cord should still be conductible.

3.3 Surface

Damage and rusting are not permitted.

4 Environmental Conditions

4.1 Operating Temperature

0°C to 40°C, best at 25±2°C

4.2 Storage Temperature

-20°C to 60°C, best at 25±5°C

4.3 Normal operation humidity range

Below 85%R.H., non-condensing

5 Safety Standards

CE Approval

6 Product Inspections

6.1 Inspections to 100% of products

- ◇ Charging voltages
- ◇ Charging current
- ◇ LCD display
- ◇ Foreign mass & sound by shock
- ◇ Polarity of charging channel
- ◇ Surface
- ◇ Charging AA or AAA at least once at 25±3°C.

6.2 Inspections to part of products

- ◇ Over current protection
- ◇ Over temperature protection
- ◇ Drop test