

GP B441

GP ReCyko USB Battery Charger B441 User Manual

Model: B441

1. INTRODUCTION

The GP ReCyko USB Battery Charger B441 is a compact and intelligent charging unit designed for NiMH AA and AAA rechargeable batteries. It features four charging slots, allowing simultaneous charging of up to four batteries. The robust housing also functions as a battery holder, providing protection for your batteries at home or during travel. This charger is compatible with both AA and AAA size batteries.

This versatile charger operates directly via a standard USB power source. Four GP ReCyko AAA 850 mAh NiMH batteries are included with the charger, providing an immediate and optimal charging solution.



Image 1.1: The GP ReCyko USB Battery Charger B441 with four AAA batteries.

2. IMPORTANT SAFETY INSTRUCTIONS

Please read and understand all safety instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- This charger is designed exclusively for NiMH rechargeable batteries. Do not attempt to charge non-rechargeable batteries (e.g., alkaline, carbon-zinc) as this may lead to leakage, rupture, or explosion.
- Do not expose the charger to rain, moisture, or extreme temperatures. Keep it away from direct sunlight and heat sources.
- Do not disassemble, modify, or attempt to repair the charger. Refer all servicing to qualified personnel.
- Ensure proper battery polarity (+/-) when inserting batteries into the charger slots.
- Unplug the charger from the USB power source when not in use or before cleaning.
- Keep the charger and batteries out of reach of children and pets.
- The charger incorporates safety features such as automatic power-off timer, dV full charge detection, temperature interruption, primary battery protection, and reverse polarity protection to prevent

overcharging, overvoltage, short circuits, and battery damage.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1x GP ReCyko USB Battery Charger B441
- 4x GP ReCyko AAA 850 mAh NiMH Rechargeable Batteries
- 1x USB Charging Cable

Lieferumfang



Image 3.1: Package contents of the GP ReCyko USB Battery Charger B441.

4. SETUP

1. **Connect the Charger:** Insert the small end of the provided USB charging cable into the USB port on the charger. Connect the larger end of the USB cable to a compatible USB power source (e.g., a USB wall adapter, computer USB port, or power bank) with a minimum output of DC 5.0V 1.0A.
2. **Insert Batteries:** Open the battery compartment. Insert 1 to 4 AA or AAA NiMH rechargeable batteries into the charging slots, ensuring correct polarity (+ and - terminals match the markings in the charger).

Lädt AA- und AAA-Akkus



Image 4.1: The charger supports both AA and AAA NiMH batteries.

5. OPERATING INSTRUCTIONS

5.1 Charging Process

1. Once batteries are correctly inserted and the charger is connected to a power source, the charging process will begin automatically.
2. The charging progress can be monitored via the LED indicators on the charger.
3. For 850mAh AAA batteries, a full charge typically takes approximately 3 hours when using a suitable USB power input (DC 5.0V 1.0A minimum).
4. The charger features an automatic power-off function once batteries are fully charged, preventing overcharging.

Schnellladen in 3 Stunden

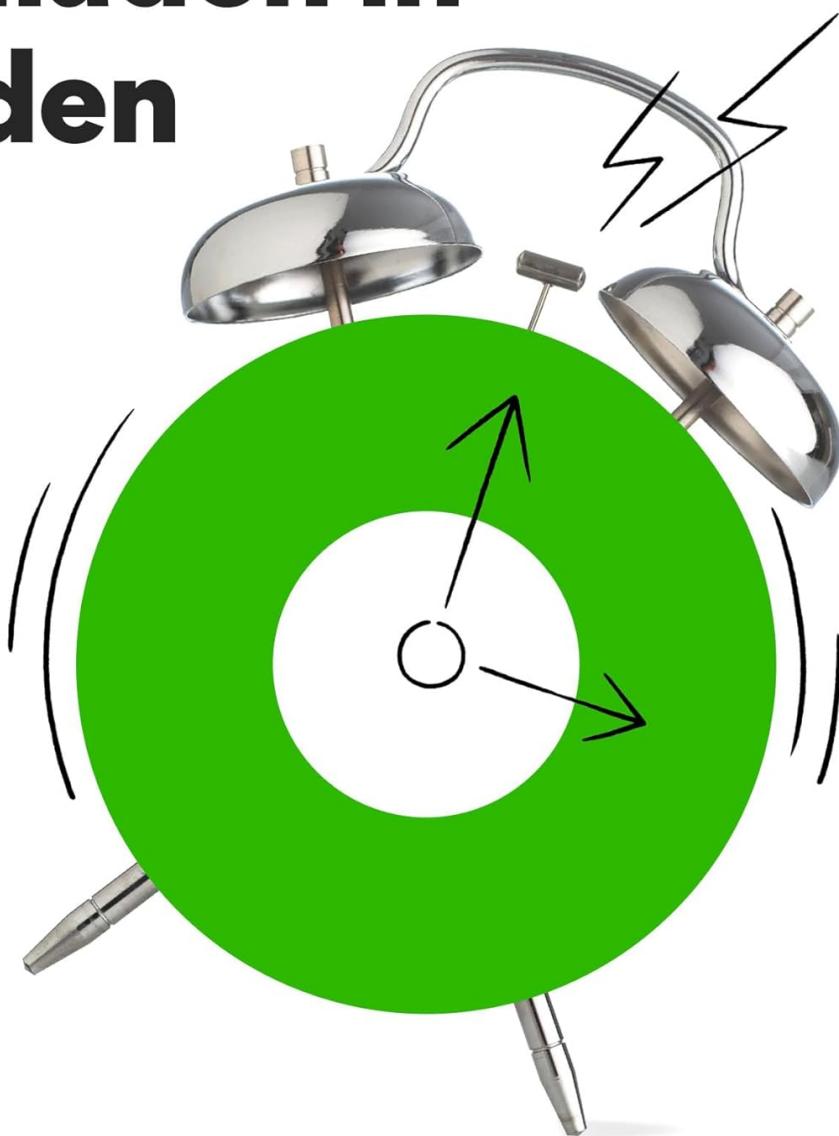


Image 5.1: The charger can fully charge batteries in approximately 3 hours.

5.2 LED Indicators

The charger is equipped with two LED indicators to display the charging status:

- **Initial Connection:** Green LED lights up for 0.5 seconds after USB power connection.
- **Charging in Progress:** Green LED flashes slowly.
- **Fully Charged:** Green LED lights up continuously.
- **Defective or Disposable Batteries:** Green LED flashes quickly. This indicates that either a non-rechargeable battery or a faulty rechargeable battery has been inserted. Remove immediately.

LED Ladestandsanzeige



Image 5.2: LED indicators show battery status and charging progress.

5.3 Battery Status Check

The charger includes a "battery status check" function. This allows you to quickly determine if your batteries are sufficiently charged or require recharging, helping to avoid unexpected power loss and unnecessary charging cycles.

6. MAINTENANCE

- **Cleaning:** Disconnect the charger from the power source before cleaning. Use a dry, soft cloth to wipe the exterior of the charger. Do not use liquid cleaners or solvents.
- **Storage:** Store the charger and batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For optimal battery life, avoid fully discharging NiMH batteries frequently. It is recommended to recharge them when they are partially depleted.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger LEDs do not light up.	No power supply or faulty USB connection.	Ensure the USB cable is securely connected to both the charger and a working USB power source. Try a different USB port or adapter.
Green LED flashes quickly.	Non-rechargeable battery or defective rechargeable battery inserted.	Remove the battery immediately. Only use NiMH rechargeable batteries. If it is a rechargeable battery, it may be faulty and needs replacement.
Batteries do not charge fully or take too long.	Low power USB source, old/worn-out batteries, or incorrect battery type.	Ensure your USB power source provides at least DC 5.0V 1.0A. Replace old batteries if they no longer hold a charge effectively. Confirm batteries are NiMH type.
Charger feels warm during operation.	Normal operation.	It is normal for the charger and batteries to become slightly warm during charging. If it becomes excessively hot, disconnect immediately and contact support.

8. SPECIFICATIONS

Feature	Detail
Model Number	B441 (GPRCKCHB441U396)
Dimensions (L x W x H)	68 x 75 x 21.3 mm (2.68 x 2.95 x 0.84 inches)
Item Weight	Approx. 38 g (1.34 ounces)
Number of Slots / Channels	4 / 2
Input Power	DC 5 V / 1 A (USB)
Output Voltage	DC 2.8 V
Charging Current (1-2 AA batteries)	770 mA
Charging Current (3-4 AA batteries)	300 mA
Charging Current (1-4 AAA batteries)	400 mA
Approx. Charging Time (2100mAh AA)	180 min (with min. DC 5.0V 1.0A input)
Approx. Charging Time (850mAh AAA)	180 min (with min. DC 5.0V 1.0A input)
Safety Features	Timer protection (5/10 hrs), -dV full charge detection, temperature interruption, primary battery protection, reverse polarity protection

Feature	Detail
Manufacturer	GP Batteries
Color	Grey/Black



Image 8.1: Back view of the charger displaying technical specifications.

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official GP Batteries website or contact your local retailer. Keep your purchase receipt as proof of purchase for any warranty claims.

For further assistance, you may visit the manufacturer's website: gpbatteries.com

