

# N9169 | BC UNI6A

GB	Universal Battery Charger
CZ	Univerzální nabíječka baterií
SK	Univerzálna nabíjačka batérií
PL	Uniwersalna ładowarka baterii
HU	Univerzális akkumulátortöltő
SI	Univerzalni polnilec baterijskih vložkov
RS HR BA ME	Univerzalni punjač baterija
DE	Universal-Ladegerät
UA	Універсальний зарядний пристрій
RO MD	Încărcător universal pentru baterii
LT	Universalus baterijų įkroviklis
LV	Universāla baterijas uzlādes ierīce
EE	Universaalne akulaadija
BG	Универсално зарядно устройство за батерии



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# GB | Universal Battery Charger

## Specifications

- charging current:

• 1-4× (AA/AAA/C/D)	1.4 V	1 000 mA
• 5-6× (AA/AAA)	1.4 V	600 mA
• 1-2× 9 V	9.0 V	30 mA

maintenance current\*\*\*: 50 mA ±10 %

end charging method\*\*\*:

1. Δ V detection
2. safety timer: 10 hours

number of charging channels: 6

battery technology: NiMH/NiCd

for battery sizes: AA, AAA, C, D, 9 V

operating temperature: 0 °C ~ 25 °C

storage temperature: -25 °C ~ 60 °C

power supply: 100~240 V AC, 50/60 Hz; 390 mA

weight: 540 g

size: 18.0 × 15.9 × 5.6 cm

## Charger Functions

### Detection of Faulty Batteries

The charger is equipped with detection of faulty or non-rechargeable batteries. In case of insertion of incorrect cells or reversing the polarity, the LED indicator will be flashing red.

### Restoration mode\*\*\*

In case highly depleted/undercharged cells are inserted, the charger features a special mode which alternately charges and measures the batteries to determine whether the batteries can or cannot be recharged. The LED indicator will be flashing red and green in turns.

### Preparation Mode\*\*\*

If the batteries are significantly drained, it is advised to not charge them immediately with a strong current. That is why batteries first undergo preparation mode. The entire system is controlled by a microprocessor. The preparation mode is indicated by the LED flashing green.

### Main Charging Mode\*\*\*

Pulse charging shall be begin after completing the preparation mode or at sufficient battery voltage (<1.3 V). Pulse charging is significantly faster and less harmful for the batteries. A pulse charger can be used to charge rechargeable batteries at a relatively high charging current without damaging or destroying the rechargeable battery cell, since the current impulse is very quick. Recharge time depends on the capacity and condition of the recharging battery. The charger monitors the status of the cell during the process; the charger measures the voltage on the cell before the charging pulse, memorises the value and compares voltages after the charging pulse. Based on the comparison, the charger evaluates whether the charging cell is fully recharged or whether charging should continue. The entire system is controlled by a microprocessor. The charging mode is indicated by the LED glowing red.

### Maintenance Mode\*\*\*

After full charging of the cell, the charger automatically switches to maintenance mode. The cells will be charged by approximately 1/20th of the charging current. Batteries can remain in this mode for an arbitrary amount of time without suffering from overcharge. The batteries can be removed and used at any time. The maintenance mode is indicated by the LED glowing green.

**Table of Approximate Charging Times (charging time depends on the degree of battery discharge)**

Size	Capacity (mAh)	Charging time/slots used (h:)	
		4×	6×
AAA	800	1:05	1:30
AAA	950	1:20	2:00
AA	2 000	3:00	4:30
AA	2 600	4:00	5:30
C	3 000	5:00	–
D	5 700	10:00	–
9 V	200	9:00 (2×)	–

#### Operating Mode Indication with LEDs\*\*\*

Indicator colour	Indicator state	Charger function
red	flashing	detection of faulty battery
green/red	flashing	restoration mode
green	flashing	preparation mode
red	glowing	charging
green	glowing	batteries charged (maintenance mode)

#### Operating Instructions for NiMH Battery Cells

1. Connect the charger to the power network. (LED indicators will flash orange 3×)
2. The batteries inserted (1 to 6 cells) do not have to be of the same capacity and size.
3. Place the batteries into the slots while observing correct polarity (+, -). Incorrectly placed batteries will not be charged.
4. The charging process begins once the batteries are in place. The charging process is optically indicated by a glowing LED.
5. After full charging of the batteries, the charger automatically switches to maintenance mode. The maintenance process is optically indicated by a green glowing LED. The batteries are ready for use.\*\*\*

\*\*\* Not valid for 9 V batteries - charge only for the required duration (see "Table of approximate charging times"). Charging is indicated by a red LED and can be stopped by removing the batteries from the charger or by disconnecting the charger from power.

#### WARNING

- Batteries may not be a part of the delivery.
- Never charge batteries other than NiCd and NiMH of sizes AA, AAA, C, D and 9 V.
- Never recharge alkaline, zinc-carbon, lithium, etc. batteries!
- Never recharge corroded batteries!
- Only use the charger for charging NiCd and NiMH cells. Do not use to power other devices!
- The charger is designed for use in dry indoor areas with proper electrical security.
- Never interfere with the charger! In case of malfunction within the warranty period, contact the retailer.

#### RECOMMENDATION

It is recommended to use GP Batteries brand cells.

# Obsah je uzamčen

**Dokončete, prosím, proces objednávky.**

**Následně budete mít přístup k celému dokumentu.**



**Proč je dokument uzamčen? Nahněvat Vás rozhodně nechceme. Jsou k tomu dva hlavní důvody:**

- 1) Vytvořit a udržovat obsáhlou databázi návodů stojí nejen spoustu úsilí a času, ale i finanční prostředky. Dělali byste to Vy zadarmo? Ne\*. Zakoupením této služby obdržíte úplný návod a podpoříte provoz a rozvoj našich stránek. Třeba se Vám to bude ještě někdy hodit.

*\*) Možná zpočátku ano. Ale vězte, že dotovat to dlouhodobě nelze. A rozhodně na tom nezbohatneme.*

- 2) Pak jsou tady „roboti“, kteří se přiživují na naší práci a „vysávají“ výsledky našeho úsilí pro svůj prospěch. Tímto krokem se jim to snažíme překazit.

A pokud nemáte zájem, respektujeme to. Urgujte svého prodejce. A když neuspějete, rádi Vás uvidíme!