



iMAX B6AC

Professional intelligent digital balance
charger/discharger
Instruction manual



Before first use, read this entire manual carefully, especially chapter 2 Warning and safety notes. Keep the manual for future reference.

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1. Introduction and description of the charger

1.1 Introduction

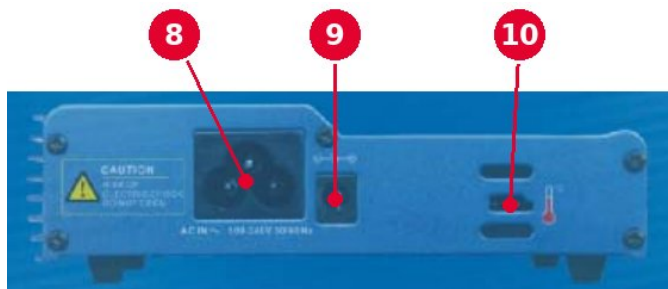
Thank you for purchasing the **iMAX B6AC** LiPo balance charger. This product is a rapid charger with a high-performance microprocessor and specialized operating software. Please read this entire operating manual completely and attentively before using this product, as it covers a wide range of information on operation and safety. If you have no experience with charging batteries, use this product in the company of an experienced person.

1.2 Description of the charger



Front panel of the charger

- ① LCD display (16 characters × 2 lines)
- ② Balance lead sockets, JST-XH ports
- ③ Output for the charge lead – 4 mm banana sockets (+ red, – black)
- ④ **Batt.Type** / **Stop** button – scroll through the main menu, stop any process in progress
- ⑤ **Dec.** button and ⑥ **Inc.** button – alter values; in balance charge mode, see the status of individual cells
- ⑦ **Start** / **Enter** button – resume or start a process, confirm an action



Panel with the power inputs and the temperature sensor port

- ⑧ AC input power port, AC 100–240 V, 50/60 Hz
- ⑨ DC input power port, 11–18 V DC
- ⑩ Temperature sensor port (the sensor is not included)

2. Warning and safety notes

These warnings and safety notes are particularly important. Please follow the instructions for maximum safety; otherwise the charger and the battery can be damaged or, at worst, it can cause a fire.

2.1 General rules

- Never leave the charger unattended when it is connected to its power supply. If any malfunction is found, **terminate the process at once** and refer to this operating manual.
- Keep the charger well away from dust, damp, rain, heat, direct sunshine and vibration. Never drop it.
- The allowable input voltage is **11-18 V DC** or **100-240 V AC**. When powered from the mains, the charger must be plugged into a grounded outlet.
- Put the charger and the battery on a heat-resistant, non-flammable and non-conductive surface. Never place them on a car seat, carpet or similar. Keep all flammable volatile materials away from the operating area.
- Make sure you know the specifications of the battery to be charged or discharged to ensure it meets the requirements of this charger. If the program is set up incorrectly, the battery and the charger may be damaged. Overcharging can cause fire or explosion. The warranty is not valid for any damage or subsequent damage arising from misuse or failure to observe the procedures outlined in this manual.
- The product may only be used by persons aged 14 and over.

2.2 Battery parameters

Type	Nominal voltage	Max. charge voltage	Allowable fast charge current	Discharge cut-off voltage
NiCd / NiMH	1.2 V/cell	—	1C-2C (depends on the performance of the cell)	0.85 V/cell (NiCd) 1.0 V/cell (NiMH)
Li-ion	3.6 V/cell	4.1 V/cell	1C or less	2.5 V/cell or higher
LiPo	3.7 V/cell	4.2 V/cell	1C or less	3.0 V/cell or higher
LiFe	3.3 V/cell	3.6 V/cell	4C or less	2.0 V/cell or higher
Pb (lead-acid)	2.0 V/cell	2.46 V/cell	0.4C or less	1.75 V/cell or higher

※ The discharge cut-off voltage in the table is the lowest allowable value. For model LiPo batteries we recommend not discharging below 3.5 V/cell (e.g. 3S: 10.5 V).

2.3 Connecting and unsuitable batteries

- To avoid a short circuit between the charge leads, always connect the charge cable **to the charger first, then connect the battery**. Reverse the sequence when disconnecting.
- Do not connect more than one battery pack to this charger at any one time.

Never attempt to charge or discharge:

- a battery pack which consists of different types of cells (including different manufacturers),
- a battery that is already fully charged or just slightly discharged,
- non-rechargeable batteries (explosion hazard),
- batteries that require a different charge technique from NiCd, NiMH, LiPo or gel cells (Pb, lead-acid),
- a faulty or damaged battery,
- a battery fitted with an integral charge circuit or a protection circuit,
- batteries installed in a device or electrically linked to other components,
- batteries that are not expressly stated by the manufacturer to be suitable for the currents the charger delivers during the charge process.

2.4 Before commencing charging

Please bear in mind the following points before commencing charging:

- Did you select the appropriate program suitable for the type of battery you are charging?
- Did you set up an adequate current for charging or discharging?
- Have you checked the battery voltage? Lithium battery packs can be wired in parallel and in series, i.e. a 2-cell pack can be 3.7 V (in parallel) or 7.4 V (in series).
- Have you checked that all connections are firm and secure? Make sure there are no intermittent contacts at any point in the circuit.

2.5 Charging

During the charge process, a specific quantity of electrical energy is fed into the battery. The charge quantity is calculated by multiplying the charge current by the charge time. The maximum permissible charge current varies depending on the battery type and its performance, and can be found in the information provided by the battery manufacturer. Only batteries that are expressly stated to be capable of quick charging are allowed to be charged at rates higher than the standard charge current.

Connect the battery to the terminals of the charger: **red is positive and black is negative**. The charger cannot distinguish the resistance of the cable and connectors from the resistance of the battery pack. The essential requirement for

the charger to work properly is therefore that the charge lead has an adequate conductor cross-section and that high-quality connectors, normally gold-plated, are fitted to both ends.

Always refer to the battery manufacturer's manual for charging methods, recommended charging current and charging time. In particular, lithium batteries should be charged strictly according to the manufacturer's charging instructions. Pay particular attention to the connection of lithium batteries. Never attempt to disassemble the battery pack.

Lithium battery packs can be wired in parallel and in series. In a parallel connection, the capacity of the pack is the capacity of a single cell multiplied by the number of cells, while the total voltage stays the same. Voltage imbalance may cause fire or explosion. Lithium batteries are recommended to be charged in series.

2.6 Discharging

The main purpose of discharging is to clean the residual capacity of the battery or to reduce the battery voltage to a defined level. The same attention should be paid to the discharging process as to charging. The final discharge voltage must be set correctly to avoid deep discharging. Lithium batteries cannot be discharged below the minimum voltage, otherwise they will suffer a rapid loss of capacity or a total failure. Generally, lithium batteries do not need to be discharged.

Some rechargeable batteries have a memory effect. If they are partly used and recharged before the whole charge is accomplished, they remember this and will only use that part of their capacity next time. NiCd and NiMH batteries suffer from the memory effect; NiCd more than NiMH.

Lithium batteries are recommended to be discharged partially rather than fully. Frequent full discharging should be avoided if possible – instead, charge the battery more often or use a battery of larger capacity. Full capacity cannot be used until the battery has been subjected to 10 or more charge cycles. The cyclic process of charge and discharge will optimize the capacity of the battery pack.

3. Special features and specifications

3.1 Special features

- **Optimized operating software** – the AUTO function sets the feeding current during the process of charging or discharging. Especially for lithium batteries, it can prevent overcharging, which may lead to an explosion due to the user's fault. It can disconnect the circuit automatically and alarm once any malfunction is detected. All programs of this product are controlled through two-way linkage and communication to achieve maximum safety. All settings can be configured by the user.
- **Internal independent lithium battery balancer** – the charger employs an individual-cell-voltage balancer. It is not necessary to connect an external balancer for balance charging.
- **Balancing individual cells while discharging** – during discharging, the charger can monitor and balance each cell of the battery individually. If the voltage of any single cell is abnormal, an error message is displayed and the process is ended automatically.
- **Adaptable to various types of lithium batteries** – Li-ion, LiPo and LiFe.
- **Fast and storage mode for lithium batteries** – the 'fast' charge reduces the duration of charging, whereas the 'storage' state controls the final voltage of the battery so that it is suitable for long-term storage and protects its useful life.
- **Delta-peak sensitivity** – the automatic charge termination program is based on the principle of delta-peak voltage detection. When the battery's voltage exceeds the threshold, the process is terminated automatically.
- **Automatic charging current limit** – for NiCd and NiMH batteries, you can set up the upper limit of the charging current. This is useful for NiMH batteries of low impedance and capacity in the 'AUTO' charging mode.
- **Capacity limit** – the charged capacity is always calculated as the charging current multiplied by time. If a maximum value is set, the process is terminated automatically when the charged capacity exceeds it.
- **Temperature threshold** – the battery's internal chemical reaction causes its temperature to rise. When the temperature limit is reached, the process is terminated. This function is available by connecting the optional temperature probe, which is not included in the package.
- **Processing time limit** – you can limit the maximum process time to avoid any possible defect.
- **Input power monitoring** – to protect a car battery used as DC input power from being damaged, its voltage is monitored continuously. If it drops below the set lower limit, the process is ended automatically.

- **Data store/load** – the data of up to five batteries can be stored and called up at any time without setting up the program again.
- **Cyclic charging/discharging** – 1 to 5 consecutive cycles of charge > discharge or discharge > charge for battery refreshing and balancing.

3.2 Specifications

Operating voltage range	DC 11.0–18.0 V AC 100–240 V, 50/60 Hz
Circuit power	max. charge power 50 W, max. discharge power 5 W
Charge current range	0.1–5.0 A
Discharge current range	0.1–1.0 A
Current drain for balancing (LiPo)	300 mA/cell
NiCd/NiMH cell count	1–15
Li-ion/LiPo cell count	1–6 in series
Pb battery voltage	2–20 V
Display	LCD, 16 characters × 2 lines
Balance lead sockets	JST-XH
Output	4 mm banana sockets
Weight	531 g (net)
Dimensions	134 × 142 × 36 mm

4. Connection and user settings

4.1 Connection for balance charging

The picture shows the correct way to connect your battery to the B6AC charger while charging in the balance charge program.

Failure to connect as shown in this picture will damage the charger.



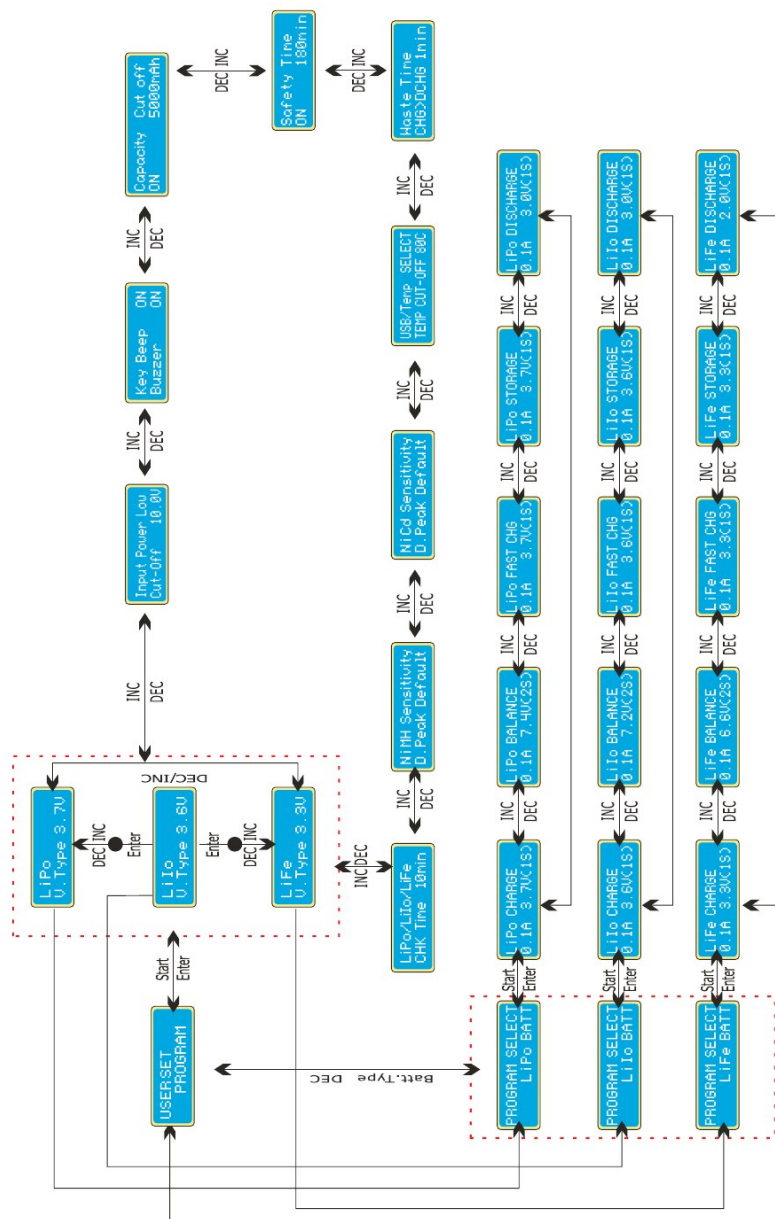
Correct battery connection for balance charging

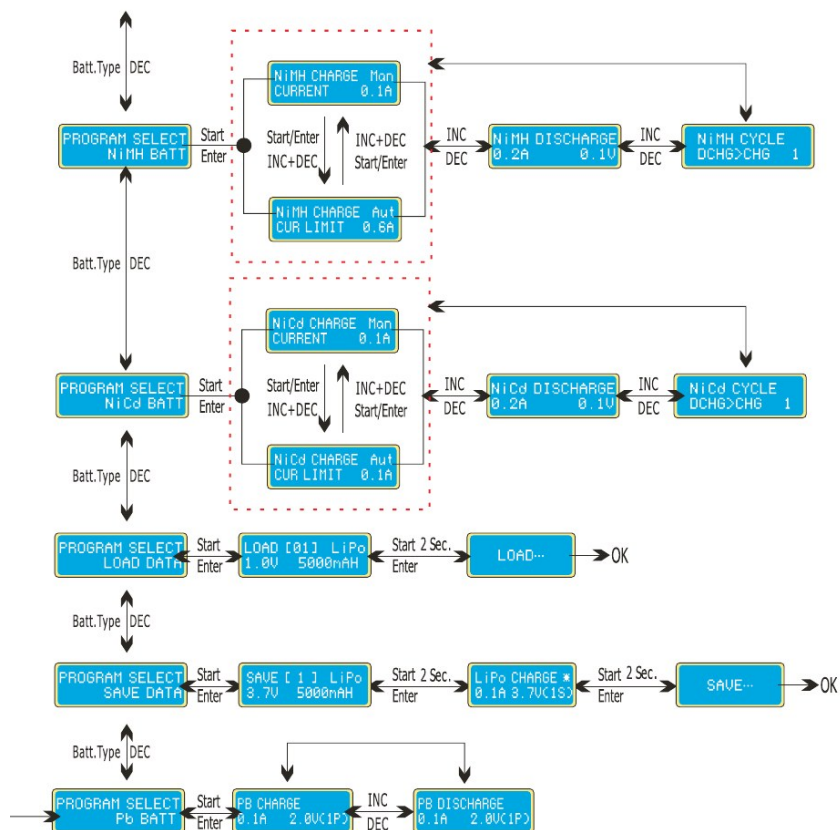
The main battery leads must be connected **along with the balance lead connector** as shown before charging your battery.

If using crocodile clips, make sure they cannot touch each other! The charger must be plugged into a grounded outlet.

4.2 Program flow chart

The charts on the following pages show the menu structure and the transitions between the screens using the Batt.Type (Stop), Dec., Inc. and Start (Enter) buttons. The texts in the charts correspond to what the charger's display shows.





4.3 Initial parameter setup (USER SET)

By default, the charger is set to typical user settings when it is connected to AC 100-240 V or DC 11-18 V for the first time. The screen displays the following information in sequence and the user can change the parameter on each screen.

If you need to alter a parameter value, press **Start/Enter** to make it blink, then change the value with **Inc.** or **Dec.** The value is stored by pressing **Start/Enter** once.



```

USER SET
PROGRAM->
    
```

User setup starting screen.



```

LiFe
U.Type  3.3V
    
```

Nominal voltage of the lithium battery. There are three kinds of lithium battery: LiFe (3.3 V), Li-ion (3.6 V) and LiPo (3.7 V). This is very important, so check the battery carefully and set it up correctly. If it differs from the correct value, the battery may explode during the charge process.



```

LiPo/LiIo/LiFe
CHK Time 10min
    
```

Cell count check time. The B6AC recognizes the cell count of a lithium battery automatically at the beginning of the charge or discharge process to avoid erroneous settings by the user. A deeply discharged battery can, however, be perceived incorrectly, so you can set the time for which the processor verifies the cell count. Normally, 10 minutes are enough.

For batteries of larger capacity, you may extend the time. But if you set the time too long for a battery of smaller capacity, the charge or discharge process can be finished within this time with an erroneous cell count, which may have a fatal result. If the processor recognizes the cell count incorrectly at the beginning of the process, extend the time. Otherwise, we recommend using the default value.



```

NIMH Sensitivity
D.Peak  Default
    
```

Trigger voltage for automatic charge termination of NiMH and NiCd batteries (delta-peak). The effective value ranges from 5 to 20 mV per cell. If the trigger voltage is set higher, there is a danger of overcharging the battery; if it is set lower, there is a possibility of premature termination. Refer to the technical specification of the battery (NiCd default: 12 mV, NiMH default: 7 mV).



```

NlCD Sensitivity
D.Peak  Default
    
```

The same setting for NiCd batteries.

Temp. Cut-off
ON 80C

An optional feature using a temperature probe contacting the surface of the battery. The temperature cut-off can be on (ON) or off (OFF). If it is on, set the maximum temperature the battery is allowed to reach during charging. Once the battery reaches this temperature, the process is terminated.

Waste time
CHG/DCHG 5min

Waste time between cycles. The battery becomes warm after charge/discharge cycles, so the program inserts a time delay after each charge/discharge process to allow the battery to cool down before the next cycle. The valid value ranges from 0 to 60 minutes.

Safety timer
ON 120min

The integrated safety timer starts simultaneously with the charge process. If an error is detected or the termination circuit cannot detect whether the battery is fully charged, the timer prevents overcharging. Calculate the timer value as shown below.

► Safety timer calculation

When charging NiCd or NiMH batteries, divide the capacity by the current, then divide the result by 11.9 and set this number of minutes as the safety timer value. If the charger stops at this time threshold, about 140 % of the capacity will have been fed into the battery.

Capacity	Current	Safety time
2000 mAh	2.0 A	$(2000 / 2.0 = 1000) / 11.9 = 84 \text{ min}$
3300 mAh	3.0 A	$(3300 / 3.0 = 1100) / 11.9 = 92 \text{ min}$
1000 mAh	1.2 A	$(1000 / 1.2 = 833) / 11.9 = 70 \text{ min}$

Capacity Cut-Off
ON 5000mAh

Maximum capacity protection. If the delta-peak voltage cannot be detected or the safety timer times out, the charge process stops automatically when the battery reaches the user-set maximum charge capacity.

Key Beep ON
Buzzer ON

A beep confirming each button press (Key Beep) and a beep or melody confirming a mode change during operation (Buzzer). Both functions can be switched on or off.

Input Power Low
Cut-Off 10.0V

Monitoring of the voltage of the input battery used to power the charger. If the voltage is lower than the user-set value, the program is ended forcibly to protect the input battery.

5. Lithium battery programs

5.1 General information

This program is only suitable for charging and discharging lithium batteries (LiPo/Li-ion/LiFe) with a nominal voltage of 3.3/3.6/3.7 V per cell. Different batteries have different charge techniques – two methods are used, termed constant voltage and constant current. The charge current varies according to battery capacity and specification.

The final voltage is very important; it must precisely match the battery: **LiPo 4.2 V, Li-ion 4.1 V and LiFe 3.6 V** per cell. The current and voltage of the battery must be set correctly.

To change a parameter value, press **Start/Enter** to make it blink, then use **Dec.** or **Inc.** to change the value. Press **Start/Enter** again to store the value.

5.2 Charging (CHARGE)

This charging mode is for charging Li-Po/Li-ion/LiFe batteries **without a balance lead**.



The left side of the first line shows the battery type you chose; the second line shows the user-set current on the left and the voltage on the right. After setting, press **Start/Enter** for more than 3 s to start the process (charge current 0.1–5.0 A, voltage 3.7–22.2 V).



Cell count check: “R” shows the number of cells detected by the charger and “S” the number of cells set by you on the previous screen. If both numbers are identical, continue by pressing **Start/Enter**. If not, press **Batt.Type/Stop** to go back and carefully check the number of cells of the battery pack.



Real-time status during charging: number of cells, charging current, battery voltage, charging time and charged capacity (mAh). Press **Batt.Type/Stop** once to stop charging.

5.3 Balance charging (BALANCE)

This function balances the voltage of the individual cells of a lithium battery while charging. The battery must have its balance lead connected to the balance port on the right side of the charger and its power leads connected to the charger output. The built-in processor monitors the voltage of each cell and controls the current fed into each cell to equalize the voltages of the individual cells.

```
LiPo  BALANCE
2.0A  11.1V(3S)
```

The left side of the first line shows the battery type you chose; the second line shows the user-set current on the left and the voltage on the right. After setting, press **Start/Enter** for more than 3 s to start the process (charge current 0.1–5.0 A, voltage 3.7–22.2 V).

```
R: 3SER  S: 3SER
CONFIRM(CENTER)
```

Cell count check: “R” shows the number of cells detected by the charger and “S” the number of cells set by you on the previous screen. If both numbers are identical, continue by pressing **Start/Enter**. If not, press **Batt.Type/Stop** to go back and carefully check the number of cells of the battery pack.

```
Li3s 1.2A 12.59V
BAL 022:43 00682
```

Real-time status during balance charging: number of cells, charging current, battery voltage, charging time and charged capacity. Press **Batt.Type/Stop** once to stop charging.

5.4 Fast charging (FAST CHG)

The charging current becomes lower as charging progresses to the end. The fast charge mode shortens the final constant-voltage (CV) phase so that charging ends earlier – charging is terminated when the current drops to 1/5 instead of 1/10. The charged capacity will be a little smaller than with normal charging, but the charging time will be shortened accordingly.

```
LiPo  FAST CHG
2.0A  11.1V(3S)
```

Set the charge current on the left of the second line and the battery pack voltage on the right. Press **Start/Enter** for more than 3 s to start the process.

```
R: 3SER  S: 3SER
CONFIRM(CENTER)
```

Cell count check: “R” shows the number of cells detected by the charger and “S” the number of cells set by you on the previous screen. If both numbers are identical, continue by pressing **Start/Enter**. If not, press **Batt.Type/Stop** to go back and carefully check the number of cells of the battery pack.

```
Li3S 2.0A 12.59V
FAS 022:43 00682
```

Real-time status during fast charging: number of cells, charge current, battery voltage, charging time and supplied capacity. Press **Batt.Type/Stop** once to stop charging.

5.5 Storage control (STORAGE)

This function is for batteries that will not be used at once. The program charges or discharges the battery to the storage voltage according to its type: **Li-ion 3.75 V**, **LiPo 3.85 V** and **LiFe 3.3 V** per cell. If the original voltage of the battery exceeds the storage level, the program begins to discharge.

```
LiPo STORAGE
1.0A 11.1V(3S)
```

Set the current and voltage of the battery pack. Charging or discharging brings the battery to the storage voltage. Press **Start/Enter** for more than 3 s to start the process.

```
Li3S 1.0A 12.59V
STO 022:43 00682
```

Real-time status: number of cells, charge or discharge current, battery voltage, elapsed time and supplied capacity. Press **Batt.Type/Stop** once to stop the process.

5.6 Discharging (DISCHARGE)

```
LiPo DISCHARGE
1.0A 11.1V(3S)
```

The discharge current on the left cannot exceed 1C and the final voltage on the right cannot be lower than the voltage recommended by the battery manufacturer, to avoid deep discharging. Press **Start/Enter** for more than 3 s to start discharging.

```
Li3S 0.4A 12.59V
DSC 022:43 00682
```

Real-time status of discharging: number of cells, discharge current, battery voltage, elapsed time and discharged capacity. Press **Batt.Type/Stop** to stop discharging.

► Cell voltage monitoring during discharging

During the storage and discharge processes, the processor monitors the voltage of each cell. If the voltage of any cell is abnormal, the B6AC shows an error message and terminates the program forcibly. If there is battery damage or a disconnection, you will see the error message; press **Inc.** to find out which cell is damaged.

```
BATTERY VOL ERR
CELL LOW VOL
```

The processor detected that the voltage of one cell is too low.

```
4.14 4.16 4.09
2.18 0.00 0.00
```

After pressing **Inc.**: the 4th cell is damaged. The voltage value may be zero if a disconnection occurs.

6. NiCd/NiMH and Pb battery programs

6.1 Charging NiCd/NiMH

This program is for charging NiCd/NiMH batteries used in R/C model applications. In the **Auto** mode, set up the upper limit of the charge current to avoid damage by an excessive feeding current – some batteries of low resistance and capacity can lead to a higher current in the automatic charging mode. In the manual mode, the charger charges with the current you set. To switch between Auto and Manual mode, make the current field blink and press **Inc.** and **Dec.** simultaneously. Allowable fast charge current: 1C–2C.



```
NIMH CHARGE Aut
CUR LIMIT 5.0A
```

To change a parameter, press **Start/Enter** to make it blink and use **Inc.** or **Dec.**; press **Start/Enter** to store the value. Press **Start/Enter** for more than 3 s to start the program.



```
NIMH 2.0A 7.42V
CHG 022:45 00890
```

Real-time status: battery type, charge current, battery voltage, elapsed time and charged capacity. Press **Batt.Type/Stop** to end the program. A sound indicates the end of the program.

6.2 Discharging NiCd/NiMH



```
NIMH DISCHARGE
1.0A 11.5V
```

Set the discharge current on the left and the final voltage on the right. The current range is 0.1–1.0 A; the final voltage range is 0.1–25.0 V. Press **Start/Enter** for more than 3 s to start the program.



```
NIMH 1.0A 7.42V
DSC 022:45 00890
```

Discharging status: battery type, discharge current, battery voltage, elapsed time and discharged capacity. Press **Start/Enter** to alter the discharge current and again to store the value. Press **Batt.Type/Stop** to stop discharging. A sound alerts the end of discharging.

6.3 NiCd/NiMH charge/discharge cycles



```
NIMH CYCLE
DCHG>CHG 3
```

Set the sequence on the left (charge > discharge or discharge > charge) and the number of cycles on the right. The range of the cycle number is 1–5.



```
NIMH 1.0A 7.42V
D>C 022:45 00890
```

Real-time status: battery type, discharge or charge current, battery voltage, elapsed time and discharged or charged capacity. Press **Batt.Type/Stop** to stop the program; press **Start/Enter** to alter the charge current. A sound indicates the end of the program.

```
DCHG 1 1314mAh
CHG 1 1430mAh
```

At the end, the capacity of the battery being charged or discharged is displayed. Press **Inc.** or **Dec.** to display the result of each cycle.

6.4 Charging Pb (lead-acid) batteries

This program is only suitable for charging Pb (lead-acid) batteries with a nominal voltage from 2 to 20 V. Pb batteries are completely different from NiCd/NiMH batteries – they can only deliver a relatively low current in comparison to their capacity, and the same restriction applies to charging. Consequently, the optimum charge current can only be 1/10 of the capacity. Pb batteries cannot be fast-charged; follow the instructions provided by the battery manufacturer.

Due to the chemical characteristics of Pb batteries, the cut-off point may sometimes be difficult to detect. We recommend using the CAPACITY CUT-OFF feature to protect the battery.

```
Pb CHARGE
4.0A 12.0V(6P)
```

Set the charge current on the left and the nominal voltage on the right. The current range is 0.1–5.0 A; the voltage must match the battery being charged. Press **Start/Enter** for more than 3 s to start charging.

```
Pb-6 4.0A 12.59V
CHG 022:43 00682
```

Real-time status: battery type, charge current, battery voltage, elapsed time and charged capacity. Press **Start/Enter** to alter the current and again to store the value. Press **Batt.Type/Stop** to end the program.

6.5 Discharging Pb (lead-acid) batteries

```
Pb DISCHARGE
1.0A 12.0V(6P)
```

Set the discharge current on the left and the nominal voltage on the right. The discharge current range is 0.1–1.0 A; the voltage must match the battery. Press **Start/Enter** for more than 3 s to start discharging.

```
Pb-6 0.4A 12.59V
DSC 022:43 00682
```

Real-time discharging status: battery type, discharge current, battery voltage, elapsed time and discharged capacity. Press **Start/Enter** to alter the discharge current and again to store the value. Press **Batt.Type/Stop** to end the program.

7. Data storage, information and error messages

7.1 Data storage program (SAVE DATA)

The B6AC can store the data of up to five batteries with their specifications. You can call the data back when charging or discharging without setting up the program again. Press **Start/Enter** to make a value blink and use **Inc.** or **Dec.** to set up the parameter.



```
PROGRAM SELECT
SAVE DATA
```

Data storage program – continue by pressing **Start/Enter**.



```
SAVE [01] NiMH
14.4V 3000mAh
```

Data number, voltage, capacity and battery type. These settings do not affect the charge and discharge process; they just present the specification of the battery. Example: a NiMH battery pack of 12 cells with a capacity of 3000 mAh. Continue by pressing **Start/Enter** for more than 3 s.



```
NiMH CHARGE At*
CUR LIMIT 5.0A
```

Charge current in the manual mode or current limit in the auto mode. To switch the charge mode, press **Inc.** and **Dec.** simultaneously while the current field blinks.



```
NiMH DISCHARGE*
1.0A 11.0V
```

Discharge current and final voltage.



```
NiMH CYCLE *
DCHG>CHG 3
```

Charge/discharge sequence and number of cycles. Press **Start/Enter** for more than 3 s; “Save ...” is displayed and the data are saved.

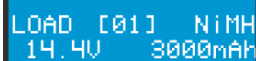
7.2 Load data program (LOAD DATA)

This program loads the data stored by the data storage program. Press **Start/Enter** to make the data field blink, choose the data number with **Inc.** or **Dec.** and load the data by pressing **Start/Enter** for more than 3 s.



```
PROGRAM SELECT
LOAD DATA
```

Load data program – continue by pressing **Start/Enter**.



```
LOAD [01] NiMH
14.4V 3000mAh
```

Choose the data number you want to call back; the stored data are displayed.

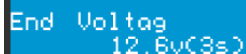


```
Load ...
```

Loading the data.

7.3 Various information during the program

You can display various information on the LCD screen during the charging and discharging process. Press **Dec.** to display the user settings. Press **Inc.** to monitor the voltage of each cell while the battery is connected to the charger's ports.



Final voltage when the program ended.



The capacity cut-off function is on; set capacity value.



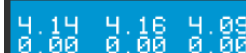
The safety timer is on; its duration in minutes.



The temperature cut-off function is on.



External temperature when the temperature probe is used.



Voltage of each cell when connected via the balance lead – the voltages of up to 6 cells are displayed.

7.4 Warning and error messages

The B6AC incorporates a variety of functions to verify the processes and the state of the electronics. In case of an error, the screen displays the cause of the error and an audible sound is emitted.



Incorrect polarity connected.



Battery connection is interrupted.



Short circuit of the output.



Input voltage incorrect.



The voltage of the battery pack has been selected incorrectly!

BREAK DOWN

The charger has malfunctioned for some reason. Seek professional advice.

BATTERY CHECK
LOW VOLTAGE

The voltage is lower than set. Please check the number of cells in the battery pack.

BATTERY CHECK
HIGH VOLTAGE

The voltage is higher than set. Please check the number of cells in the battery pack.

BATTERY VOLTAGE
CELL LOW VOL

The voltage of one cell in the battery pack is too low. Please check the voltage of each cell.

BATTERY VOLTAGE
CELL HIGH VOL

The voltage of one cell in the battery pack is too high. Please check the voltage of each cell.

BATTERY VOL ERR
CELL CONNECT

Wrong connection of the connector detected. Please check the connector and cable.

TEMP OVER ERR

The internal temperature is too high – please let the charger cool down.

CONTROL FAILURE

The processor cannot control the feeding current – please have the charger repaired.

8. Information for the EU and Czech Market

8.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

Importer / responsible person in the EU	Rotorama, s.r.o.
Company ID (IČO)	051 57 692
VAT ID (DIČ)	CZ05157692
Registered office	Okrajová 1351, 674 01 Třebíč, Czech Republic
E-mail	info@rotorاما.cz
Phone	+420 252 252 098
Website	www.rotorاما.cz

8.2 Product conformity



- The product bears the **CE** marking and complies with the requirements of the applicable European Union harmonisation legislation.
- A copy of the **EU Declaration of Conformity** is available from the importer at the address stated above or at the e-mail address info@rotorاما.cz.
- **Product identification:** the type designation (iMAX B6AC) is shown on the front panel of the charger.

8.3 Disposal of electrical equipment



- The crossed-out wheeled bin symbol on the product, its packaging or in the documentation means that at the end of its service life the product **must not be disposed of together with mixed municipal waste.**
- Hand it over at a take-back point for electrical equipment – at a collection yard, at a take-back point of a collective system, or at the retailer when purchasing a new equivalent product. Take-back is free of charge for the end user.
- The obligations under Act No. 542/2020 Coll., on end-of-life products, are fulfilled by the importer through a collective take-back system.
- Proper disposal helps prevent negative impacts on the environment and human health and contributes to the reuse of secondary raw materials.

Through its contractual partner **ASEKOL a.s.**, the company ensures the take-back of waste electrical equipment from households and the separate collection of waste electrical equipment, batteries and accumulators in accordance with the applicable legislation. The customer is entitled to hand over old electrical equipment or a battery or accumulator at any collection point of the above contractual partner. The addresses of these take-back points are listed at www.asekol.cz, www.ecobat.cz and also <https://visoh2.mzp.cz/RegistrMistZO/RegistrMistZOPublic/MapaMistZpetOdberu>.

9. Warranty and rights arising from defective performance

9.1 Rights of the buyer under Czech law

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection. The manufacturer's warranty terms set out below (Chapter 9.2) **do not in any way limit** the buyer's rights arising from these regulations.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 8.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.

9.2 Manufacturer's warranty terms

✱ **The following text is the manufacturer's original warranty statement.**

We guarantee this product to be free of manufacturing and assembly defects for a period of **one year from the time of purchase**. The warranty only applies to material or operational defects which are present at the time of purchase. During that period, we will repair or replace free of service charge products deemed defective due to those causes. You will be required to produce proof of purchase (invoice or receipt).

This warranty is not valid for:

- any damage or subsequent damage arising as a result of misuse,
- any damage or subsequent damage arising as a result of modification,
- any damage or subsequent damage arising as a result of failure to observe the procedures outlined in this manual.