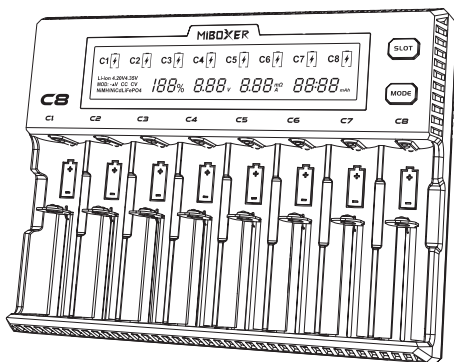


MIBOXER

Where there is MiBoxer there is power



CB Smart Charger Users Manual

Features

- Compatible with: Li-ion (4.20V,4.35V) / LiFePO4(3.60V) / Ni-MH/Ni-Cd (1.48V).
- Suitable for different types of cylindrical rechargeable batteries.
- Single-channel charging current up to 1.5A.
- Can set any individual channels charge current, batteries type.
- Can set the charging current, battery type of all channels at the same time.
- High precision reference voltage source calibration.
- Automatically stop charging when battery was fully charged.
- With reverse-battery and short circuit protection function.
- Automatically detects the battery and displays the charge status.
- Automatically measure battery resistance.
- Automatically detect batteries power percentage.
- Measure the batteries capacity by charging.
- Supports 8-channel simultaneous independent charging without affecting each other.
- Supports small capacity battery charging.
- Supports lithium battery repair function.
- Supports DC12V car charger.
- Made of PC fire retardant materials.
- Excellent heat dissipation design.
- Excellent electronic circuit design, 12 months warranty.

Parameters

Input Voltage: DC12V 3A (5.5*2.1mm) 

Output Voltage: 4.2V±1% / 4.35V±1% / 3.6V±1% / 1.48V±1%

Output Current: Li-ion / LiFePO4 (MAX 1.5A*4 / 0.8A*8)

Ni-MH / Ni-Cd (MAX 1A*8)

Size: 185mm*141mm*35mm (L*W*H)

Weight: 375g (No battery & cable included)

Compatible with:

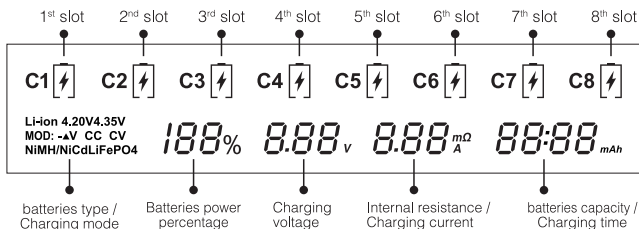
Li-ion(4.20V / 4.35V) / IMR / INR / ICR / LiFePO4:

10340, 10350, 10440, 10500, 12340, 12500, 12650, 13450, 13500, 13650, 14350, 14430, 14500, 14650, 16500, 16340(RCR123), 16650, 17350, 17500, 17650, 17670, 18350, 18490, 18500, 18650, 18700, 20700, 21700, 22500, 22650, 25500, 26500, 26650

Ni-MH/Ni-Cd(1.48V): A, AA, AAA, AAAA, C, SC

LCD Display Introduction

Large LCD display, real-time display of charging voltage, charging current, charging time, charging mode, battery type, battery resistance, battery capacity, power percentage and other data, allowing you to more intuitive understanding of the battery charge status. If there is no operation, the LCD backlight will dim after 1 minute.



Batteries detection and error

Batteries activation and detection	Errors
When the batteries is reversed	The current channel's batteries symbol flashing and show "Err".
When the batteries is short-circuited	
Correctly put into the battery, check is OK, enter into the normal state of charge.	

Users Manual

1. Connect the power supply.
2. Put the battery in any channel, the charger starts to detect battery-related data and display it on the LCD screen.
3. Without any setting the charger will automatically distribute the charging current according to the internal resistance of the battery.
4. Short press **[SLOT]** to switch C1-C8 channel. And the backlight of LCD will be turn on.



NOTE

LiFePO4 / 4.35V Li-ion battery, the charger can not be identified automatically, you need to manually select the battery type. If the LiFePO4 is not set manually, the charger will charged the battery as Li-ion 4.2V and the battery will be at risk of explosion.

Set the batteries type

Put the batteries into any slot, and quickly double press the **MODE**, then the batteries symbol will flashing, short press **MODE**, you can switch the batteries type, you can long press **MODE** to exit, or it will exit automatically after 5 seconds.

Set the charging current

Long press **MODE**, till the **8.88**^A flashing, then short press.

MODE to set the charging current, you can long press **MODE** to exit), or it will exit automatically after 5 seconds.

	Li-ion(4.20V / 4.35V) / LiFePO4	Ni-MH / Ni-Cd
Charging current range	0.1A / 0.2A / 0.3A / 0.4A / 0.5A / 0.6A / 0.8A / 1.0A / 1.2A / 1.5A	0.1A / 0.2A / 0.3A / 0.4A / 0.5A / 0.6A / 0.7A / 0.8A / 0.9A / 1.0A

The function of set all slots simultaneously

Long press **SLOT**, enter into check all status, all slot symbol flashing, the charger will exit check all status within 5 seconds if there no operate.

1. Under the check all status, long press the **MODE**, you can set all slots charging current.
2. Under the check all status, quickly double press the **MODE**, you can change all slots batteries type.

Note: The whole selection mode only effective for the slots with batteries, can't choose the battery type for Ni-MH/Ni-Cd during this mode.

Measure the batteries capacity by charging

Put the batteries into any slot, the charger will automatic calculate the accumulated mAh.

- When “mAh”, flashing, the mAh means accumulated mAh.
- When “mAh”, stay show, mAh means the batteries capacity.

Note: put low voltage batteries into charger, and when the charger finished charging, the mAh means the total capacity of the batteries.

Batteries type	Li-ion(4.20V / 4.35V)	LiFePO4	Ni-MH / Ni-Cd
Low voltage	Voltage < 3.40V	Voltage < 3.00V	Voltage < 1.05V

Battery Activation

C8 charger has an activation function for over discharged Lithium battery. When placed a battery in charging slot, C8 will auto detect the battery & active it. If battery unable to be activated, charger will judge battery is damaged, the charging slot will display "Err" and stop charging.

Lithium Battery Restoration

If operate lithium battery over discharge to 0V, charger will restore battery voltage with small current to make voltage rise slowly to normal condition, when restoration process finish, come to the normal charging mode. If battery voltage cannot rise in a long time, charger will judge battery is damaged, the present charging slot will display "Err" and stop charging.

Automatic Stop Charging

After the battery is fully charged, the LCD screen displays "Full", the charger will stop charging automatically to prevent the battery from shortening battery life due to overcharging.

High Sensitive $-\Delta V$ judgment mode, make sure Ni-MH / Ni-Cd battery real full charging

According to Ni-MH & Ni-Cd battery charging mode, add $-\Delta V$ judgement to detect the battery status & judge to stop charging time more accurately, let the Ni-MH and Ni-Cd battery can obtain the maximum charge capacity but not to overcharge.

Precautions

1. The charger is restricted to charging Li-ion, IMR, ICR LiFePO₄, Ni-MH/Ni-Cd rechargeable batteries only. Never use the charger with other types of batteries as this could.
2. The safe operation temperature for the charger is between $-10\sim 40^{\circ}\text{C}$, and the safe storage temperature is $-20\sim 60^{\circ}\text{C}$. Do not expose the device to direct sunlight, heating devices, open flames; avoid extreme high or extreme low ambient temperatures and sudden temperature changes.
3. Never charge or discharge any battery having evidence of leakage, expansion / swelling, damaged outer wrapper or case, color-change or distortion.

4. Never attempt to charge primary cells such as Alkaline, Zinc-Carbon, Lithium, CR123A, CR2, or any other unsupported chemistry due to risk of explosion and fire.
5. Please make sure the correct program and settings are chosen and set. Incorrect program or setting may damage the charger, or cause fire or explosion.
6. Do not leave a working charger unattended. If any malfunction is found, please terminate operation immediately, and turn to user manual for instruction.
7. Do not disassemble, assemble or modify the charger without authorization, which may cause the charger to damage or even explosion.

Warranty

MIBOXER Warranty is provided only for products purchased from an authorized source. This applies to all products. Any DOA / defective product can be exchanged for a replacement through a local distributor/dealer within the 15 days of purchase. After 15 days, all defective / malfunctioning products can be repaired free of charge for a period of 12 months (year) from the date of purchase. Beyond 12 months (1year), a limited warranty applies, covering the cost of labor and maintenance, but not the cost of accessories or replacement parts.

The warranty is nullified the product(s) is/are

1. Broken down, Reconstructed and/or Modified by unauthorized parties.
2. Damaged from wrong operations (i.e. Reverse polarity installation, Installation of non-rechargeable batteries, or Violation warning operation).
3. Damaged by batteries leakage.

For the latest information on products and services, please contact a local distributor or send an email to sales@miboxer.com

Packing List

Name	Quantity
C8 Charger	1 PC
User Manual	1 PC
AC to DC 12V/3A Power Supply	1 PC

Made in China





Scan for more

MiBoxer Hi-Tech Co.,Ltd.

Add: Floor 2, Buiding D, Fusen Technology Park, Hangcheng Road, Bao'an District, Shenzhen City, Guangdong Province, China

E-mail: sales@miboxer.com

<http://www.miboxer.com>