

Product Name

Li-ion Battery Charger

Product Model

LBC-321

Product Picture



1 Main Features

1.1 Compatible with many types of batteries

MCU controls four independent charging channels and automatically identify battery types.

1.2 Adjustable charging current

4 level charging currents 0.5A / 0.7A / 1.0A / 2.0A (2.0A charging current based on one Lithium) can be selected.

1.3 Multi-charge protection

With multiple protection, ensure safe and reliable charging, include over-charging, over-discharging, short circuit and reverse polarity protections.

1.4 Mobile power function include

One USB output support standard 5V/1A USB output (Lithium battery is placed in the rightmost channel).

1.5 Multi-information indicator LEDs

Blue LED indicators show the battery types (1.2V Ni-MH, 3.2V Li-Fe, 3.7V Li-ion, 3.85V Li-ion) , charging status (25%, 50%, 75%, 100%).

Yellow LED indicator show the charging current

2 Basic Specifications

2.1 Input

DC 5V/2A

2.2 Battery Voltage

DC1.2V / 3.2V / 3.7V / 3.85V

2.3 2.3 Charging Current

2.0A / 1.0A / 0.7A / 0.5A

2.4 Standby Current

15mA max

2.5 USB Output

DC5V/1A

2.6 Color

Black

2.7 Material

ABS

2.8 Dimensions

113.5 x 90 x 29.5mm (L x W x H)

2.9 Net weight

115±10g (include USB cable)

3 Accessories

60cm USB A to Type-C cable

4 Charging Time

Battery Type	Battery Capacity	Charging Current	Charging Time(Appr.)
26650 Li-ion	5000mAh	1.0A	6h
18650 Li-ion	2500mAh	1.0A	3h
18650 Li-ion	2000mAh	1.0A	2.5h
18650 Li-ion	1500mAh	0.7A	2.5h
17335 Li-ion	700mAh	0.5A	1.5h

5 Environmental Conditions

5.1 Operating Temperature

0°C to 40°C

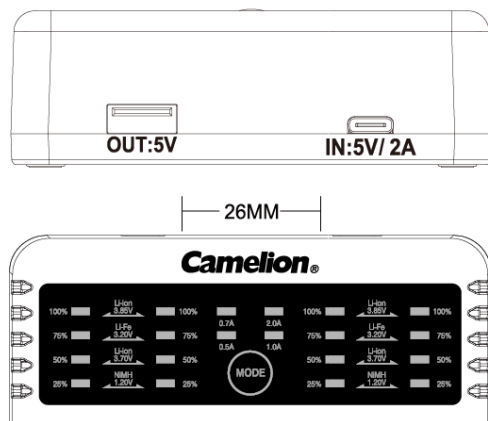
5.2 Storage Temperature

-20°C to 65°C

6 Implementation Standards

CE, ROHS, FCC, DOE/CEC, CA65

7 Label & Nameplate



Camelion®

Battery Charger

Model: LBC-321

Input: 5V=2.0A

Battery Voltage: 1.2V= /3.2V= /3.7V= /3.85V=

Charge Current: 0.5A /0.7A/1.0A/2.0A

USB output: 5V=1.0A

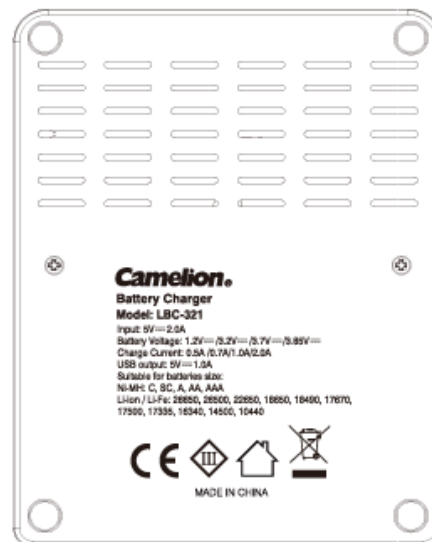
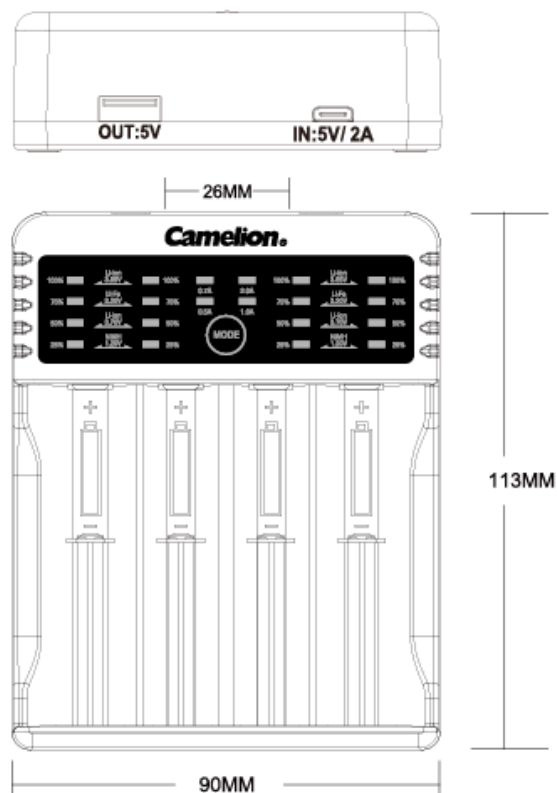
Suitable for batteries size:

Ni-MH: C, SC, A, AA, AAA

Li-ion / Li-Fe: 26650, 26500, 22650, 18650, 18490, 17670, 17500, 17335, 16340, 14500, 10440



8 Diagram/Drawing



9 Operating and Charging Indicators

9.1 Selection Battery Type

The charger can automatically identify 1.2V Ni-MH and 3.7V Li-ion batteries, but it can't identify 3.2V LiFePO4 and 3.85V Li-ion batteries, so you need to manually set the battery type to 3.2V LiFePO4 or 3.85V Li-ion. Operation is as follows:

- 1.) Connect the charger to a powered USB port by included USB cable;
- 2.) Check the battery type and insert it to a charging slot;
- 3.) A blue LED above the charging slot will light up and keep flashing to indicate the type of battery, and it will enter the charging state after 5 seconds.
- 4.) If the battery is 3.2V or 3.85V, the corresponding 3.7V blue LED will flash. Press the MODE button to switch to 3.2V or 3.85V LED within 5 seconds. Waiting for 5 seconds, it will automatically enter the charging state.

9.2 Selection Charging Current

The default charging current is 0.5A. Under charging starts, you can switch to other feasible charging current at any time by press and hold the MODE button for 3 seconds.

1PCS: 2.0A / 1.0A / 0.7A/ 0.5A (Only in the rightmost slot can reach 2.0A current)

2PCS: 1.0A /0.7A / 0.5A

3PCS: 0.7A / 0.5A

4PCS: 0.5A

9.3 Mobile Power Function

- 1.) When using this function, please do not supply power to the charger via the USB-C port.

Insert a lithium battery into the charging slot on the rightmost, then the LED corresponding to the slot will light up to show the battery power level. And USB out port can provide 5V/1A output.

If the LED indicator corresponding to the 25% battery level flashes, it means that the lithium battery is about to run out, please replace the lithium battery or disconnect the USB output.

10 Cautions

- Please read included operation instruction carefully before use; Pay attention to check and select battery type before charging .
- This charge is only for charging cylindrical batteries, including 3.7V/3.85V Li-on, 3.2V Li-Fe and 1.2V Ni-MH/ Ni-Cd batteries.
- Do not charge non-rechargeable batteries (e.g. zinc-carbon, alkaline, lithium).
- When charge with 5V USB AC adapter, 2A-current AC adapter is recommended.
- The charger may get hot during working a long time, handle with care.
- Please cut off the electricity and remove the battery from the charger when charging complete.
- This product is for indoor use only, the maximum operating temperature is 40°C.
- Do not expose the product to fire. Keep this product at a dry place and avoid exposure to moisture and sunlight.
- Do not operate this product with a damaged plug or cable.
- Do not disassemble or reassemble this product.
- This appliance is not intended for use by any person (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.