



ARE-C1+

Smart Battery Charger

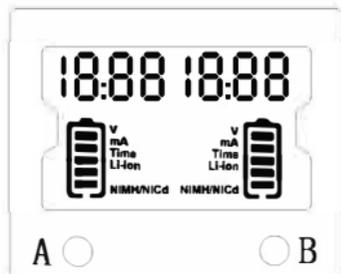
User Manual

Fenix flashlights, batteries and chargers are available at BrightGuy.com - an authorized distributor

DC port
DC接口
Porta DC
port DC
Вход DC 12-24В
Puerto DC
12-24 Volt Gleichstrom

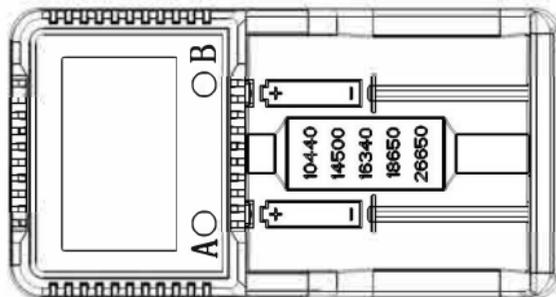


AC port
AC接口
Porta AC
port AC
Вход AC 100-240В
Puerto AC
100-240 Volt Wechselstrom



Pic1
图1
Fig. 1
dessin 1
Pис. 1
Foto 1
Bild 1

Pic2
图2
Fig. 2
dessin 2
Pис. 2
Foto 2
Bild 2



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Made in China/ Shenzhen He Xinyu Technology Co., Ltd. (ODM)

(ENGLISH) Main Features

- Compatible with the following battery types:
 - 10440, 14500, 16340, 18650, 26650 Li-ion
 - AAA, AA, C Ni-MH/Ni-Cd
- Support AC100-240V/50-60Hz or DC12-24V
- LCD screen for charging display
- LCD screen for battery display
- Short-circuit protection, overcurrent protection, overvoltage protection and reverse polarity protection
- Micro-computer chip controlled; digitally regulated charging to extend battery lifetime

Specification Parameters

- Supports AC100-240V/50-60Hz or DC12-24V, from external power source to the charger
- Rated output power: 3W (Ni-MH/Ni-Cd), 8.4W (Li-ion)
- To charge the batteries, the details are as follows:

Operating Mode	To charge the batteries	
Voltage	4.2V	1.5V
Current	1.0A	1.0A
Battery Type	18650	AA AAA C
	26650	
	16340	
	14500	
	10440	

- Size: 145mm x 75mm x 38.5mm (Length x Width x Height)
- Weight: 96 grams (excluding charging cable)
- Operating temperature: -20°C to 50°C
- Operating humidity: 5% to 90%
- Storage temperature: -20°C to 85°C

Safety Specification

Compliant Standards: UL, GS, PSE, FCC, CE, CB, RoHS, WEEE,

How to use

- Battery Insertion**
Keep the battery polarity markings in conformity with the charger markings.
* Only charge the allowed batteries, and never charge non-rechargeable batteries.

2. Battery Charging

- "∞-form" port is the AC charging port, and round one is the DC charging port. (Pic 1)
- Connect to the power supply; LCD display screen will turn on. Insert the battery. The LCD screen will display the charging status and battery level.
- While charging, the corresponding channel will display voltage and the battery type, Li-ion or Ni-MH/Mi-Cd.
- The rated charging current of the two channels is 1A per channel, which will be less than 1A while charging.
- Two independent channels can be used separately. Therefore, it is normal for the batteries to continue charging if you exchange the two fully-charged batteries position.

Note: 1. There will be no trickle charging if Li-ion batteries are fully charged to prevent overcharging.
2. There will be trickle charging of 3-5mA of Ni-MH/Ni-Cd batteries to ensure they are fully charged.

3. LCD Screen Display

1) The LCD screen will display for 2 seconds after connecting to the power supply (Pic 2). If there is compatible battery in the channel, the LCD screen will display charging state. If not, 2 seconds later, the LCD screen will only display the battery symbol, and then the screen will go out after 30 seconds. Single click the channel button A or B, the screen will be lit up.
2) The two channels are separately controlled by the two buttons. The battery type and battery voltage will be displayed after battery insertion. Single click the button, the screen will cycle through battery voltage → charging current → charging time. Long press any button to turn off the LCD screen. Single click the button will turn on the LCD screen again, then the battery voltage will be displayed.

4. Battery Level Indicator

The charger will automatically detect the battery level when battery is inserted in power source. The battery level will be displayed on the LCD screen through battery status bar, then start charging. If there is no power connected, the battery level can't be detected and displayed, even with battery inserted.

Battery level will be displayed by the battery status bar:

- One flashing, four off: less than 20%, in charging process
- One bar constantly on, one flashing, three off: 20% - 40%, in charging process
- Two bars constantly on, one flashing, two off: 40% - 60%, in charging process
- Three bars constantly on, one flashing, one off: 60% - 80%, in charging process
- Four bars constantly on, one flashing: more than 80%, in charging process
- Five bars constantly on: fully charged

5. Short-circuit Protection

When short circuit is detected, charging will autostop.

6. Reverse Polarity Protection

If the battery is inserted the wrong way around, charging will not begin until batteries are inserted correctly.

7. Over-charging Protection

When fully charged, the charging current on the LCD screen will be displayed 0.

Notice: It is normal for the battery temperature to below 55°C during charging. Due to the high charging current, the battery may heat, so please be careful of scalding.

Attention

- Only intended for rechargeable Li-ion batteries, Ni-MH and Ni-Cd batteries. Other types of batteries may cause battery breach, leakage or explosion, and even cause damage to people and property.
- Use the battery charger in normal working condition and cut off the power completely after usage.
- Insert the battery properly.
- Do not dismantle or modify the charger or use it for any other purpose.
- Keep the charger out of reach of children. Children should use the battery charger only under adult supervision.