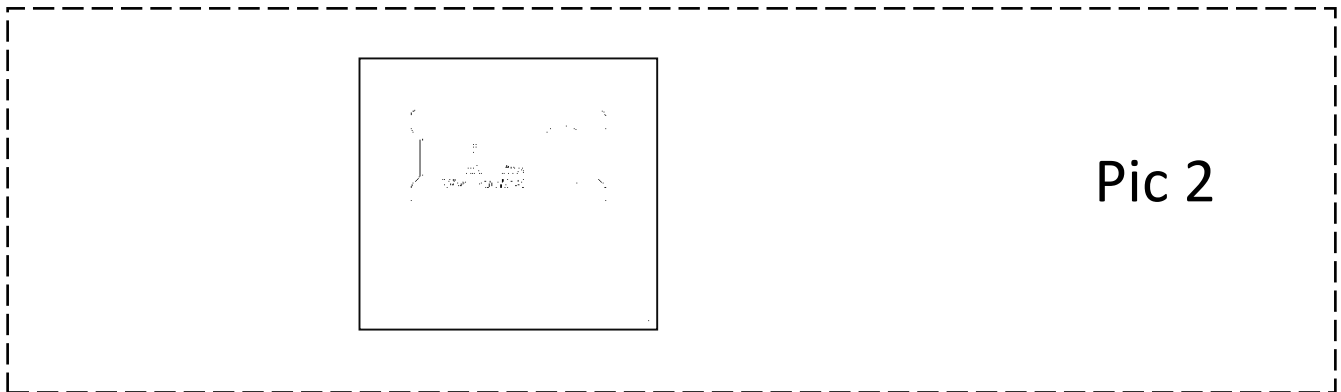
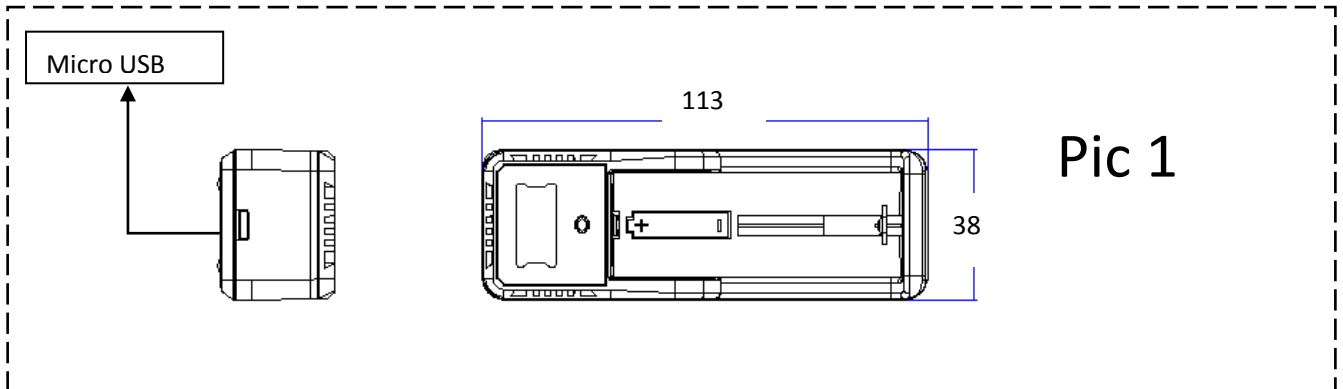


## ARE –X1+ Smart Battery Charger



### Main Features

- Compatible with the following battery types:
  - 1). Li-ion: 10440, 14500, 16340, 18650, 26650
  - 2). Ni-MH/Ni-Cd: AAA, AA, C
- Micro USB charging
- LCD screen display for battery level and charging status
- Short-circuit protection, overcurrent protection, overvoltage protection and reverse polarity protection
- Micro-computer chip controlled; digitally regulated charging to extend battery lifetime

### Specification Parameters

- Input: DC 5V/1.0A, from external power source
- Rated output power: 1.5W (Ni-MH/ Ni-Cd), 4.2W (Li-ion)
- To charge the battery, the details are as follows:

Voltage	4.2V	1.5V
Current	1.0A	1.0A
Battery Type	18650 26650 16340	AA AAA C

	14500	
	10440	

- Size: 113mm x 38mm x 29mm (Length x Width x Height)
- Weight: 58 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: CE, FCC, RoHS, WEEE

### How to use

#### 1. Battery Insertion

Keep the battery polarity markings in conformity with the charger markings.

\* Only charge the allowed battery, and never charge non-rechargeable battery.

#### 2. Battery Charging

- Micro USB port is the charging port (Pic1). Connect to the power supply and insert the battery, the LCD screen will display the charging status and battery level.
- While charging, the LCD screen will display voltage and the battery type, Li-ion or Ni-MH/Ni-Cd.
- The rated charging current is 1A; may be less than 1A while charging.

Note:

- 1). It is normal for the battery temperature to be below 55°C during charging, but due to the high charging current, the battery may heat, so be careful of scalding.
- 2). There will be no trickle charging if Li-ion battery is fully charged to prevent overcharging, but there will be trickle charging of 3-5mA of Ni-MH/Ni-Cd battery to ensure it is fully charged.

#### 3. LCD Screen Display

- The LCD screen will display for 2 seconds after connecting to the power supply. (Pic2)
- If there is no battery in the channel, 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 button, the screen will be lit up with the battery symbol displayed.
- The battery type, battery voltage and charging status will be displayed after battery insertion. Single click the button - the screen will cycle through battery voltage → charging current → charging time. Long press the button to turn off the LCD screen. Single clicking the button again will turn on the LCD screen and 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, and then **charging will** start. If there is no power connected, the battery level can't be detected and displayed, even with battery inserted.

Battery level will be displayed as follows by the battery status bar:

One flashing, four off: less than 20%

One bar constantly on, one flashing, three off: 20% - 40%

Two bars constantly on, one flashing, two off: 40% - 60%

Three bars constantly on, one flashing, one off: 60%- 80%

Four bars constantly on, one flashing: more than 80%

Five bars constantly on: fully charged

### **5. Short-circuit Protection**

If short-circuit is detected, charging will autostop.

### **6. Reverse Polarity Protection**

If the battery is inserted the wrong way around, charging will not begin.

### **7. Overcharge Protection**

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

### **Attention**

1. 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 **can** cause damage to people and property.
2. Use the battery charger in normal working condition and cut off the power completely after usage.
3. Insert the battery properly.
4. Do not dismantle or modify the charger or use it for any other purpose.
5. Keep the charger out of reach of children. Children should use the battery charger only under adult supervision.

Guarantee Period: 12 months.