

Soshine Intelligent Charger for 18650 18500 17650 Li-Ion Battery

Thank you for purchasing this product. Please read and follow these instructions carefully for safe and satisfying operation.
Be sure to keep these instructions handy for future reference.

Battery information:

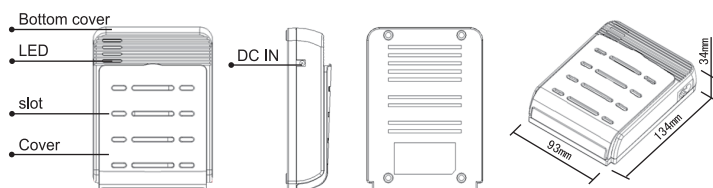
Battery:
Use only 18650 18500 17650 size Li-ion (3.6/3.7V) rechargeable batteries.
Does not support carbon-zinc batteries, alkaline batteries, Ni-MH batteries or Non-rechargeable batteries.
(When the high resistance of the battery charging, the temperature will be high, discharge time is very short, it is recommended to replace the battery
Low capacity when charging the batteries will soon be filled with, discharge soon stopped when the discharge, it is recommended that replacement batteries. Part of the battery for a short time, that capacity is low, even marked volume is very high)

Feature:

- MCU control intelligent
- Voltage and polarity detection
- Reverse protection
- Precision end-of-charge voltage detection
- Charge 1-4pcs batteries
- Quick safe
- Auto alert indication for worse battery pack and bad battery
- Auto active function for Lithium battery cell open (0 Voltage, protected)

LED indicates:

Condition	LED indicate	Represent
Power on	Red-Green flash once then Turn off	Stand by without battery/Loose connections
Charging	red	Charging in progress
Charge completed	green	Battery is full, ready to use
Problem	Red-Green flash	Battery short circuit, upside /Non-rechargeable battery / Low voltage less than 1.8V



Specifications:

Adaptor:
Input: AC100-24V 50/60Hz
Output: DC12V 2000mA or DC24V 1000mA
DC car adapter: 12V
DC OUT: DC4.2V 1x 1000mA, 2x 1000mA, 3x 1000mA, 4x 1000mA
Charger mode: CC / CV (Constant current and constant voltage)
Color: black
Size (mm): L134x W93 x H34
Weight: 159g,375g(US Sets),431g(EU Sets)

Type	Model	Capacity(mAh)	Charging time(H)			
			1pc	2pcs	3pcs	4pcs
Li-ion 3.6V/3.7V (With or not protected)	18650	2200	2.7	2.7	2.7	2.7
	18650	2600	3.2	3.2	3.2	3.2
	18650	3400	4.1	4.1	4.1	4.1
	18650	3500	4.2	4.2	4.2	4.2
	17650	2600	3.2	3.2	3.2	3.2
	18500	1400	1.7	1.7	1.7	1.7

This chart is for reference only. The actually time may shorter than the chart specification.

How to charge:

- 1) Connect the power supply. Indicator flashing once red and green, indicates that the charger has completed the self-test, battery can be placed in charger;
- 2) Please insert batteries correctly according to the positive and negative pole symbols on battery and charger. Normally 18650/18500/17650 battery will have positive / negative pole marks, please insert batteries according to the marks; If there is no pole marks on your battery, Positive electrode metal small, negative metal large;
- 3) You can put 1, 2, 3, 4pcs batteries on charger. With independent charging channel,S1 will detects battery voltage automatically, Led display red, indicates start charging;
- 4) After battery is fully charged, the charger led shows green, indicates the charging is completed;
- 5) Charger will stop charging automatically when battery is fully charged. Battery can be left in charger safely. When battery voltage drops, there will be a small supplemental charge current streams flow;

Battery short circuit, upside /Non-rechargeable battery / Low voltage less than 1.8V, red green light flashing, represents the battery has a problem and need to be reinsert or replaced;
Part of the battery charging time is too long, light is always red, please take out the battery, back into the charger;
Different capacity batteries, different brands of batteries can be mix charged;
Disposable alkaline batteries, carbon zinc batteries, lithium-ion batteries cannot be charged in any charger. Please take a close look at the specification on battery.
Only rechargeable batteries supported to charge;

Battery Note:

When using a new battery for the first time or after long term storage, please fully charge the battery before use.
During long term storage, battery should be charged and discharged once every 6 months.
When using 2 or more batteries in a device, make sure they were charged simultaneously.
Do not mix batteries with other battery brands or batteries of a different chemistry such as alkaline and zinc carbon.
Do not use charged and discharged batteries together.
When battery is full charged, but electricity use time is much less than the initial work time, means the service life of the battery is run out, please replace a new battery.
Regulations vary for different countries. Dispose of in accordance with local regulations.

Battery Warning:

- Do not put the battery in a charger or equipment with wrong terminals connected.
- Do not short circuit batteries, it may result a permanent damage to batteries.
- Do not expose or dispose of the battery in fire.
- Do not immerse in water.
- Avoid excessive physical shock or vibration.
- Battery must be charged in appropriate charger only.
- Stop using batteries immediately if you notice anything wrong with them (such as leakage, color change or deformity).
- Keep out of the reach of children.
- Store the battery in a cool, dry and well-ventilated area.

Charger Note:

- Use Li-ion rechargeable batteries only.
- Do not use batteries with their + (positive) and - (negative) ends (terminals) reversed.
- Never charge other types of batteries, such as Alkaline or Carbon zinc as this may cause them to become hot, leak or rupture, causing personal injury or property damage.
- The charger and batteries may become hot when charging. This is normal. Use caution when handling.
- Use the charger properly to avoid electric shock.

Charger Warning:

- Do not reverse charge batteries.
- This charger is for indoor use only. Never expose the charger to rain or snow condition.
- Remove batteries from unit or device when not in use.
- Do not drop, place heavy weight on charger, or allow strong impact to the charger.
- Do not disassemble or reassemble the charger.
- Operating Temperature: 0 C-45 C . To optimize charging capacity, please charge the batteries in temperatures between 10 C-45 C .
- Do not expose the charger to direct sunlight. Keep away from high temperatures.
- Children should only use the charger under adult supervision.