

The i30 Professional Battery Kit includes an intelligent control battery charger that is compatible with almost all rechargeable batteries. The 18650 batteries offer a button-top design with integrated PCB protection (Anti-Overcharge, Anti-Overdischarge, Anti-Short Circuit). The 18650 batteries are ideal for use in many devices including many types of LED flashlights.

Charger Features

- Capable of charging 2 batteries simultaneously
- Compatible with Li-ion (18650, 18500, 18350, 17670, 16340(RCR123), 14500, 10440), Ni-MH and Ni-Cd (AA, AAA, AAAA, C) rechargeable batteries
- Automatically detects battery status and selects the appropriate charge mode
- LED displays charging progress
- Automatically stops charging when complete
- Designed for optimal heat dissipation
- Certified by RoHS, CE, FCC

Charger Specifications

Input: AC 100-240V, 47/63Hz

Output: 4.2V/600mA, 1.2V/700mA

Dimensions: 112mm x 42mm x 40mm

Charger Operating Instructions

1. Insert battery/batteries into charger slots. When inserting a battery ensure the positive and negative ends correspond with the positive (+) and negative (-) symbols on the charger. The battery positive end should be facing towards the LED indicator. Incorrectly inserting the batteries will prevent the batteries from being charged and the LED indicator will not illuminate.
2. Plug the charger into a wall outlet. A red power indicator will illuminate which initiates charging. The green power indicator should illuminate once the batteries are fully charged (typically 6-8 hours for a 3000mAh capacity battery). Never leave charging batteries unattended.

Charging Indicator Lights

- Turns red to indicate proper charging
- Turns green when charging is complete
- Flashes red when polarity is reversed

Note: Sometimes the green indicator light will not come on when the batteries are charged. This typically happens when there is not good contact between the battery and the charging contact point. You may need to spin the batteries while they are on the charger and the lights will stabilize.

3. The charger features two charging slots, with each slot able to charge batteries. Rechargeable batteries of differing chemistries and voltages may be charged simultaneously using 1 or 2 of the charging slots.

Warning: Charging current higher than 0.5A might overheat 10440&15266 Li-ion batteries. It is not recommended to charge these batteries with the charger in order to preserve battery longevity.

Note: The charger is capable of charging 3.7v Li-ion rechargeable cells OR 1.2V, Ni-MH/Ni-Cd rechargeable batteries only. See "Charger Features" for description of battery sizes. The charger is not recommended for use with over-discharged (zero volt) UNPROTECTED Li-ion batteries. Li-ion batteries without a protection circuit can potentially cause a fire or explosion.

Precautions

Warning - Keep Away From Children and carefully read instructions before using! NEVER LEAVE BATTERIES UNATTENDED WHILE CHARGING. Personal injury and/or property damage can result if these instructions are not followed.

1. When charging different battery types simultaneously (for example, Li-ion 26650 and AAA), always ensure solid contact is made between both sides of the battery and the charging slot's metal contact points.
2. The charger is restricted to charging Li-ion, IMR, Ni-MH and Ni-Cd rechargeable batteries only. Never use the charger for other types of batteries as this could result in battery explosion, cracking or leaking, causing property damage and/or personal injury.
3. The charger should only be used indoors or inside a motor vehicle. Do not expose it to water, high humidity, low or high ambient temperatures.
4. Do not disassemble or modify the charger or the batteries.
5. The charger safe operating temperature is between 0 C--40 C.
6. Do not use or store the charger near open flames, direct sunlight, heating devices or other high-temperature environments.
7. Lithium-ion batteries can explode or cause burns if shorted, overheated, disassembled, overcharged, or exposed to fire or high temperatures (above 212° F).

Battery Features

- New integrated PCB protection (Anti-Overcharge, Anti-Overdischarge, Anti-Short Circuit)
- Internal PCB protection prevents under-voltage at 2.5V and over-voltage at 4.25V
- Higher energy density and lower weight than other types rechargeable batteries
- Manufactured under ISO9001-2000 to assure quality

Battery Specifications

- Nominal Capacity: 3000mAh, Minimum: 2450 mAh
- Internal PCB protection prevents under-voltage at 2.5V and over-voltage at 4.25V
- Nominal Voltage: Average 3.7V
- Cut-off Voltage: 2.5V
- Cycle Performance: 90% of initial capacity at 400 cycles
- Cycle life: > 500 cycles
- Charge: Current = 0.5C (~1500mA) Voltage = 4.2 V End Current = 0.01 mA
- Discharge: Current = 0.5C (~1500mA) End Voltage = 3.0V

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