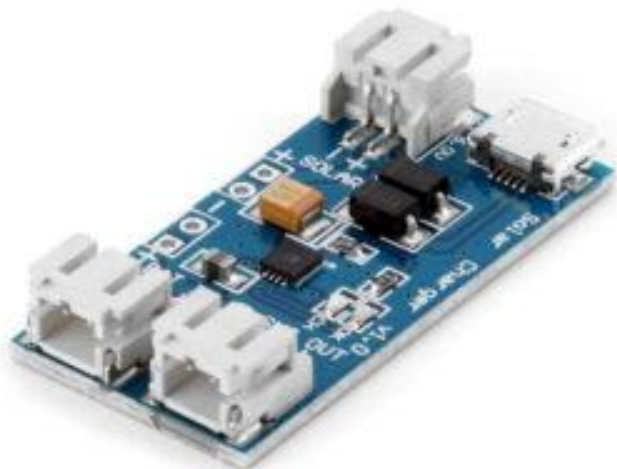


### CN3065 18650 Li-ion Mini Solar Charger Module

The CN3065 18650 Li-ion Mini Solar Charger Module is a compact and efficient charging solution designed to safely charge 18650 Li-ion batteries using solar energy or USB input. Ideal for DIY electronics, solar-powered gadgets, and portable projects, this module combines convenience, safety, and high performance in a tiny footprint. Its low-cost, easy-to-use design makes it perfect for hobbyists, engineers, and green-energy enthusiasts looking to integrate solar charging into their projects.



### ○CN3065 18650 Li-ion Mini Solar Charger Module

High-Efficiency Solar Charging

The CN3065 Mini Solar Charger supports solar panel input to charge a single 18650 Li-ion battery efficiently. With a typical solar panel voltage input of 5–6V, the module is capable of converting solar energy into a stable charging current for your battery, allowing for environmentally friendly, off-grid charging.

This feature is ideal for small solar-powered devices such as:

- Solar lights
- Portable gadgets
- Small IoT devices
- DIY solar projects

By using renewable energy, you can reduce dependency on external power sources and make your projects more sustainable.

### Intelligent Battery Management

Safety is critical when charging Li-ion batteries, and the CN3065 Mini Charger is equipped with intelligent battery management features:

- **Overcharge Protection:** Prevents the battery from being overcharged, ensuring long battery life.
- **Over-Discharge Protection:** Safeguards the battery from deep discharge, which can damage Li-ion cells.
- **Short-Circuit Protection:** Protects both the battery and connected devices from accidental short circuits.
- **Automatic Charge Control:** The module automatically regulates charging current and voltage, making it compatible with various 18650 cells.

These features make the CN3065 module safe and reliable, even for DIY electronics projects handled by beginners.

### USB and Solar Dual Input

The CN3065 module supports dual input options:

- **Solar Panel Input:** Perfect for outdoor and off-grid applications, allowing you to harness renewable energy.
- **USB Input:** Provides a convenient alternative when solar energy is unavailable, making it suitable for indoor projects or charging from a power bank or adapter.

**This dual-input capability ensures that your 18650 battery can be charged anytime and anywhere, adding flexibility and convenience to your projects.**

### **Compact and Easy to Use**

**The CN3065 Mini Charger Module is designed for easy integration into electronics projects:**

- **Miniature Size:** Small footprint (typically around 28mm x 18mm), suitable for compact enclosures.
- **Simple Wiring:** Clear input and output pins make connections intuitive.
- **Mounting-Friendly:** Can be fixed in DIY project boxes or enclosures easily.
- **Lightweight:** Ideal for portable and handheld devices.

**Its compact design allows hobbyists and engineers to incorporate it into a variety of projects without taking up much space.**

### **Applications**

**The CN3065 18650 Li-ion Mini Solar Charger Module is suitable for a wide range of applications, including:**

- **DIY Solar Projects:** Solar-powered lights, mini fans, or gadgets.
- **Portable Electronics:** Battery-powered devices requiring safe, efficient charging.
- **IoT and Sensor Devices:** Off-grid sensor nodes, weather stations, and environmental monitors.
- **Emergency Backup:** Charging batteries for portable emergency lights or small devices.
- **Educational Kits:** Safe and simple module for teaching about solar energy and battery charging.

**This versatility makes it a must-have tool for electronics enthusiasts, students, and professional developers working on small solar-powered projects.**

### **Benefits**

- **Safe Charging:** Built-in protection circuits ensure battery longevity.
- **Dual Input:** Charge via solar panels or USB.
- **Compact Design:** Fits easily into small projects and enclosures.
- **Eco-Friendly:** Harness solar energy for off-grid applications.

- **Reliable Performance:** Designed for consistent and efficient charging.

## **Conclusion**

The CN3065 18650 Li-ion Mini Solar Charger Module is a versatile, compact, and safe charging solution for small electronics projects. Its dual input options, intelligent battery management, and solar charging capability make it perfect for hobbyists, DIY enthusiasts, and professionals building solar-powered gadgets or portable devices.

Invest in the CN3065 Mini Solar Charger to add eco-friendly, reliable, and efficient battery charging to your 18650 Li-ion battery projects. Whether for learning, prototyping, or practical off-grid applications, this module delivers convenience, safety, and performance in a small package.