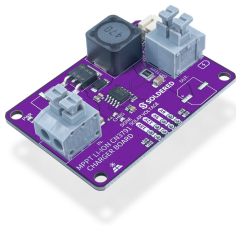


PRODUCT DATASHEET



MPPT Li-Ion CN3791 Charger Board

333136

The MPPT Li-Ion CN3791 Charger Board efficiently charges Li-Ion batteries via solar power, ensuring reliable energy for your projects.

Full product documentation, files and tutorials: solde.red/333136

CORE ATTRIBUTES

SKU 333136

WEIGHT 22 g

BARCODE 732388657308

DESCRIPTION

Introducing our MPPT Li-Ion CN3791 Charger Board, your solution for solar energy to power your electronics. Designed for hobbyists, makers, and professionals, this board simplifies efficient and reliable Li-Ion battery charging via solar panels. Simply connect one of our Li-Ion batteries and a solar panel and your project is now solar-powered! The battery acts as an accumulator and will continue powering your projects even when the sun isn't shining, and when it is, your battery will be charging! Its compact form factor and user-friendly design make it ideal for integrating into a wide range of projects, from portable devices to off-grid sensor nodes, ensuring your creations stay powered sustainably.

At its core, the CN3791 chip delivers charging algorithms tailored for Li-Ion batteries, guaranteeing precise control, maximum efficiency, and safety. The board features quick-connect spring terminals for effortless solar panel and battery integration, alongside a JST connector compatible with our extensive range of Li-Ion batteries. This thoughtful design ensures seamless setup and performance, making it a great choice for demanding applications.

Designed and manufactured in the EU, our MPPT Li-Ion CN3791 charger board adheres to the highest quality and safety standards. Our open-source principles with detailed documentation and technical support empower your innovation. Whether you're building an Arduino-powered weather station or a custom solar-powered robot, this board offers the reliability, performance, and community backing you need to bring your ideas to life.

TECHNICAL DETAILS

- Efficient MPPT Charging - Built around the CN3791 IC for maximum power point tracking and optimized Li-Ion battery charging.
- Wide Solar Input Range - Supports 6V, 9V, 12V, 18V solar inputs
- Safe & Reliable - Integrated charging algorithms ensure precise control, efficiency, and battery protection.

- User-Friendly Connections - Quick spring terminals for fast solar panel and battery hookup.
- JST Battery Connector - Plug-and-play support for a wide range of our Li-Ion batteries.
- Compact Design - Small 54 × 38 mm (2.1 × 1.5 inch) footprint for easy integration into projects.
- Arduino & Maker Friendly - Ideal for powering DIY electronics, sensor nodes, and portable projects.
- Continuous Power Supply - Battery storage ensures your project stays powered even without sunlight.
- Open-Source & Documented - Transparent design with detailed documentation and community support.

SPECIFICATIONS

QWIIC COMPATIBLE	No
BREADBOARD COMPATIBLE	Yes
IC PART NUMBER	CN3791
SUPPLY VOLTAGE MIN V	4.5
SUPPLY VOLTAGE MAX V	28
MAX OUTPUT CURRENT A	4
PROTECTION FEATURES	Overvoltage

LINKS

Full Documentation	https://docs.soldered.com/cn3791/overview/
Hardware Details	https://docs.soldered.com/cn3791/hardware/
Pinout	https://docs.soldered.com/assets/images/mppt-charger-board-pinout-5c2ca04b03768ad9f21074df939e54e5.png

GALLERY

