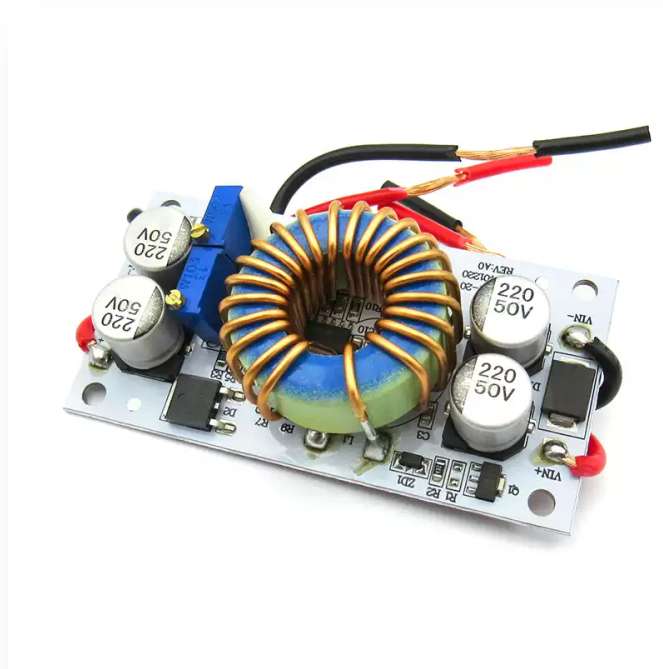


# 250 W Constant-Voltage / Constant-Current Boost Module

High-power aluminum-base step-up converter for vehicle, laptop and LED loads



## Product Overview

A compact power-electronics module documented from the supplied archived product page. The specifications below separate confirmed ratings from operating guidance and identify the exact module variant where the source page contains multiple options.

# Electrical and Mechanical Specifications

| Parameter           | Value                                    |
|---------------------|------------------------------------------|
| Topology            | Non-isolated DC-DC boost converter       |
| Maximum power class | 250 W                                    |
| Control modes       | Constant voltage and constant current    |
| Output              | Adjustable boosted DC voltage            |
| Construction        | Aluminum-base power board                |
| Adjustment          | Independent voltage and current controls |
| Connections         | High-current wire leads                  |

## Key Features

- 250 W high-power class
- Independent CC/CV control
- Aluminum-base thermal design
- Suitable for LED and charging loads

## Operating Notes

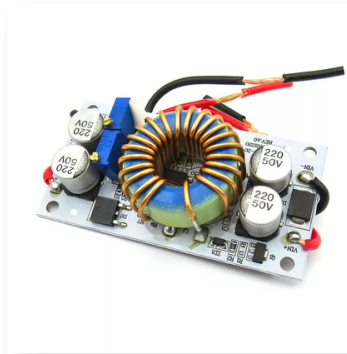
- The saved page does not expose one reliable universal voltage range.
- Set voltage and current limits before connecting the load.
- High-power operation requires heatsinking, airflow and heavy wiring.

# Application and Connection Guide

## APPLICATION & CONNECTION

### HIGH-CURRENT DC INPUT

Battery / vehicle source



### BOOSTED DC LOAD

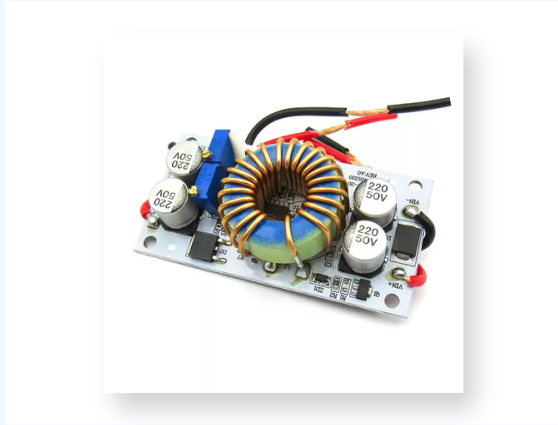
Adjusted CC/CV output

**Verify polarity and configure voltage/current before connecting the load.**

## Connection Sequence

1. Confirm the input source is within the stated range. 2. Verify input and output polarity. 3. Configure voltage and current limits with the load disconnected. 4. Connect the load or battery. 5. Monitor temperature during initial operation.

## KEY PRODUCT ADVANTAGES



- 1 **250 W high-power class**
- 2 **Independent CC/CV control**
- 3 **Aluminum-base thermal design**
- 4 **Suitable for LED and charging loads**