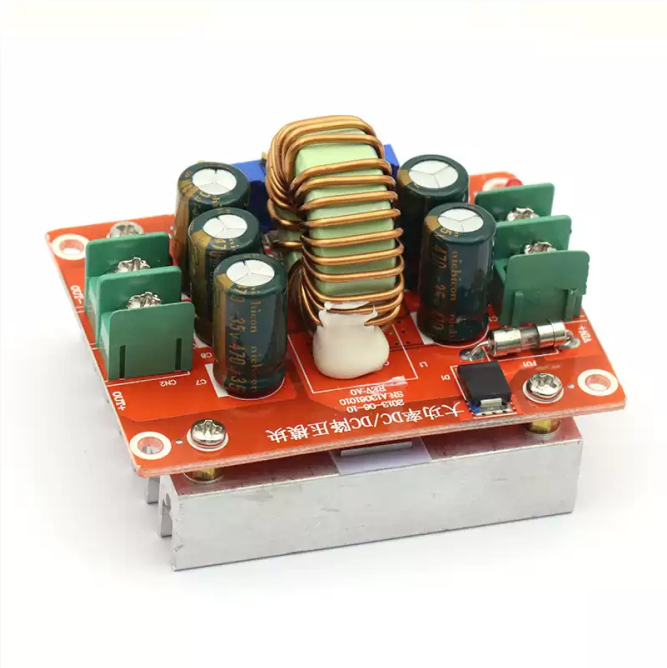
12 A CC/CV Adjustable Buck Charger Module

High-power step-down regulator for lithium charging and LED driving



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 buck converter
Maximum current class	12 A
Control modes	Constant voltage and constant current
Output	Adjustable regulated DC voltage
Adjustment	Independent voltage and current controls
Cooling	Large aluminum baseplate heatsink
Connections	High-current screw terminals
Typical uses	Lithium charging and LED driving

Key Features

- 12 A current class
- Independent CC/CV adjustment
- Large aluminum heatsink
- Battery and LED applications

Operating Notes

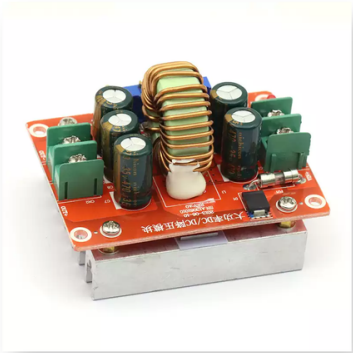
- This is a step-down converter; output must remain below input.
- Configure charge voltage/current for the battery chemistry.
- High-current operation requires airflow and low-resistance wiring.

Application and Connection Guide

APPLICATION & CONNECTION

HIGHER DC INPUT

Protected DC source



BATTERY / LED LOAD

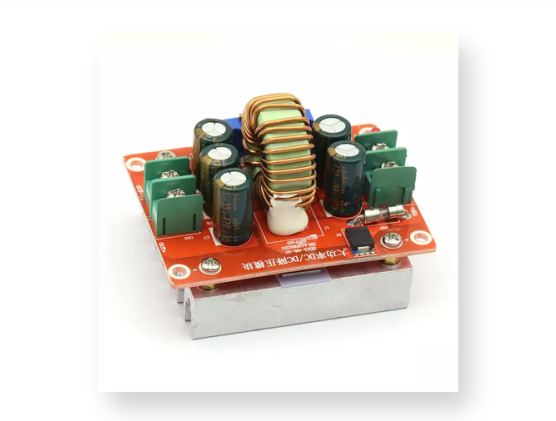
Controlled CC/CV

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. **12 A current class**
2. **Independent CC/CV adjustment**
3. **Large aluminum heatsink**
4. **Battery and LED applications**