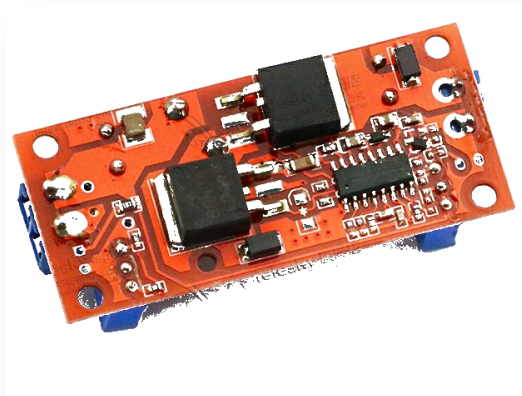


10 A CC/CV Adjustable Buck Converter

Constant-voltage and constant-current step-down module for charging 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 buck converter
Input voltage	4-32 VDC; 36 V absolute maximum stated by source
Adjustable output	1.2-32 VDC
Output current range	0.4-10 A
Recommended continuous current	Up to 6 A
Constant-current range	0.3-10 A
Peak efficiency	Up to 98%
Switching frequency	150 kHz
Protections	Short-circuit and over-temperature
Input reverse-polarity protection	Not provided
Output anti-backflow protection	Not provided
Board dimensions	60 x 26 x 20 mm

Key Features

- Independent CC/CV regulation
- 10 A maximum current class
- Up to 98% efficiency
- Charging and LED-drive capability

Operating Notes

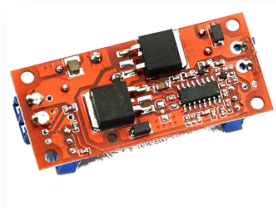
- This is a step-down converter; output must remain below input.
- For battery charging, add output reverse-current blocking where required.
- Configure voltage and current limits before connecting the load; provide airflow above 6 A.

Application and Connection Guide

APPLICATION & CONNECTION

HIGHER DC INPUT

4-32 VDC



BATTERY / LED LOAD

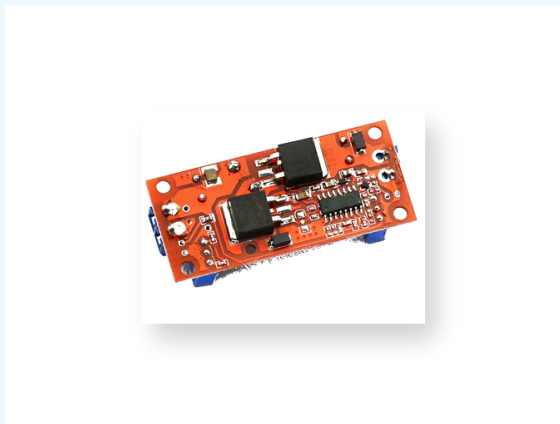
Controlled CC/CV output

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 **Independent CC/CV regulation**
- 2 **10 A maximum current class**
- 3 **Up to 98% efficiency**
- 4 **Charging and LED-drive capability**