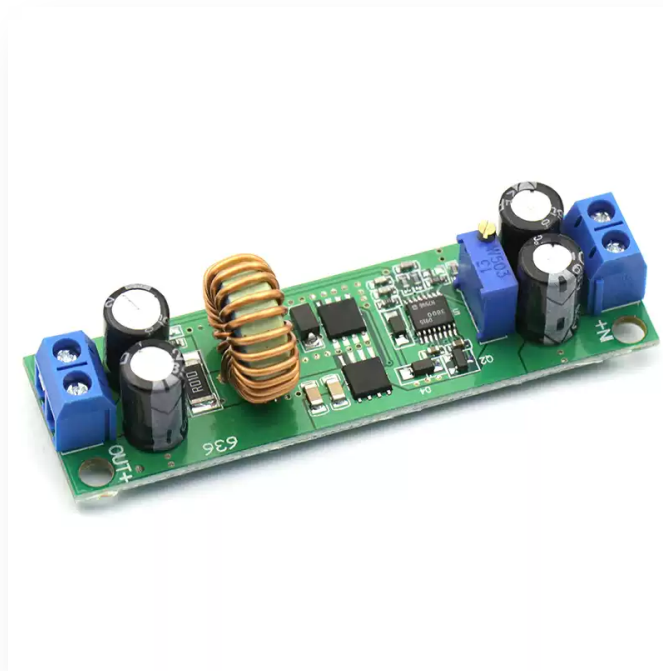


10 A Synchronous Adjustable Buck Converter

High-efficiency wide-input step-down module for vehicle and DC systems



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 synchronous DC-DC buck converter
Input voltage	6.5-48 VDC
Adjustable output	1.25-30 VDC
Maximum current class	10 A
Peak efficiency	Up to 97%
Operating temperature	-40 to +85 deg C
Board dimensions	75 x 21 x 16 mm
Connections	IN and OUT screw terminals

Key Features

- Synchronous high-efficiency design
- 6.5-48 V wide input
- 1.25-30 V adjustable output
- 10 A current class

Operating Notes

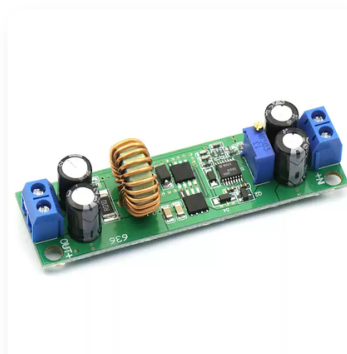
- This is a buck converter; output must remain below input.
- Set the output voltage before connecting sensitive equipment.
- High-current operation requires low-resistance wiring and adequate airflow.

Application and Connection Guide

APPLICATION & CONNECTION

VEHICLE / DC INPUT

6.5-48 VDC



LOWER-VOLTAGE LOAD

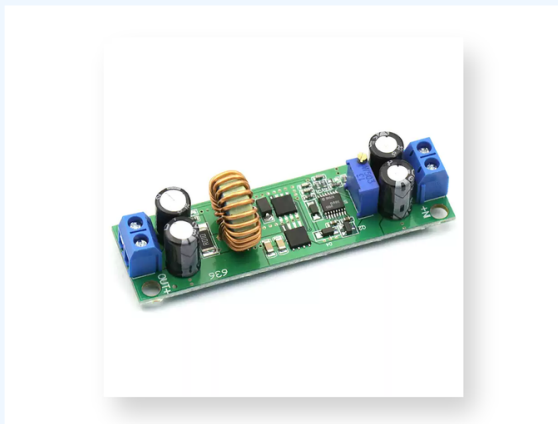
1.25-30 VDC

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 Synchronous high-efficiency design

2 6.5-48 V wide input

3 1.25-30 V adjustable output

4 10 A current class