

LM2596HVS Wide-Input Adjustable Buck Converter

4.5-48 V input step-down regulator for adjustable DC output



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
Controller	LM2596HVS
Topology	Non-isolated DC-DC buck converter
Input voltage	4.5-48 VDC
Output	Adjustable regulated DC voltage
Adjustment	Multi-turn output-voltage potentiometer
Connections	Input and output solder pads
Function	Step-down conversion only

Key Features

- 4.5-48 V wide input range
- LM2596HVS regulator
- Adjustable output voltage
- Compact module footprint

Operating Notes

- This is a buck converter and cannot raise the input voltage.
- Maintain suitable input-to-output headroom for regulation.
- The saved page does not expose a reliable maximum continuous-current rating.

Application and Connection Guide

APPLICATION & CONNECTION

DC INPUT

4.5-48 VDC



LOWER-VOLTAGE LOAD

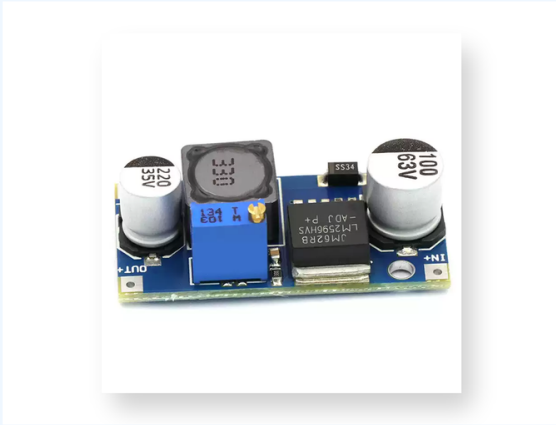
Adjusted output

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 4.5-48 V wide input range

2 LM2596HVS regulator

3 Adjustable output voltage

4 Compact module footprint