

LM2596S-ADJ Adjustable Buck Converter Module

3 A DC-DC step-down regulator with screw terminals



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	3.2-40 VDC
Adjustable output	1.5-35 VDC
Maximum output current	3 A
Switching frequency	65 kHz stated on the saved page
Output ripple	Less than 30 mV
Operating temperature	-45 to +85 C
Measured example	12 V input, 5 V / 1 A output: efficiency reduction below 1% stated
Board dimensions	Approximately 44 x 21 x 12 mm

Key Features

- Wide adjustable output range
- Up to 3 A output class
- Precision multi-turn adjustment
- Compact 44 mm module

Operating Notes

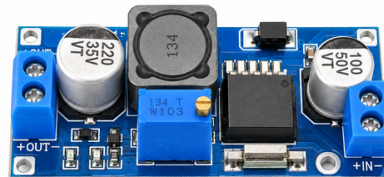
- Set the output voltage before connecting a sensitive load.
- Input must be at least approximately 1.5 V above output.
- Output voltage must remain below input voltage.

Application and Connection Guide

APPLICATION & CONNECTION

DC SOURCE

3.2-40 VDC



REGULATED LOAD

1.5-35 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 **Wide adjustable output range**
- 2 **Up to 3 A output class**
- 3 **Precision multi-turn adjustment**
- 4 **Compact 44 mm module**