

LM2577 9 V Fixed-Output Boost Converter

Compact 3.7-5 V to 9 V DC-DC step-up module



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 boost converter
Input voltage	3.7-5 VDC
Fixed output	9 VDC
Maximum output current	1 A, dependent on input voltage and cooling
Maximum output power	12 W
Typical efficiency	91%
Board dimensions	Approximately 50 × 18 mm
Protection	No integrated short-circuit or reverse-input protection

Key Features

- Fixed regulated 9 V output
- Typical efficiency of 91%
- Compact 50 × 18 mm format
- Enable / shutdown control pad

Operating Notes

- Input voltage must remain below the fixed output voltage.
- Add external fuse, reverse-polarity and short-circuit protection as required.
- Output current depends strongly on input voltage and thermal conditions.

Application and Connection Guide

APPLICATION & CONNECTION

BATTERY / 5 V INPUT

3.7-5 VDC



9 V LOAD

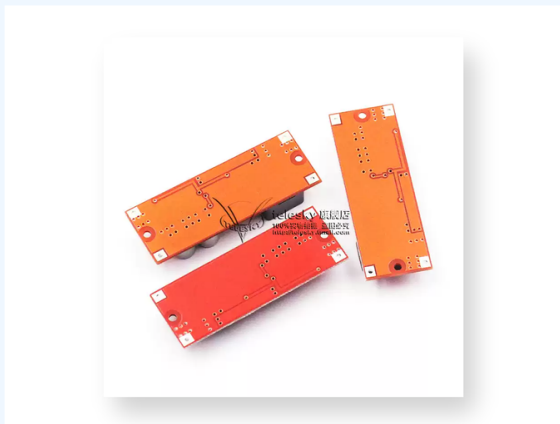
Fixed output

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 **Fixed regulated 9 V output**
- 2 **Typical efficiency of 91%**
- 3 **Compact 50 × 18 mm format**
- 4 **Enable / shutdown control pad**