

5 V 3 A High-Efficiency Buck Converter

Compact 4-24 V input step-down power 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
Input voltage	4-24 VDC
Output voltage	5 VDC
Maximum output current class	3 A
Peak efficiency	Up to 97.5%
Conversion type	DC-DC buck converter
Form factor	Miniature PCB module

Key Features

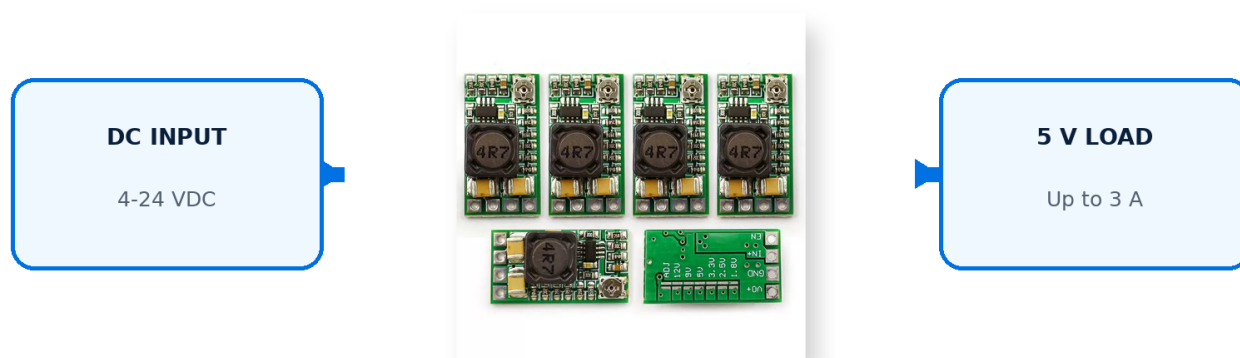
- Up to 97.5% efficiency
- 5 V / 3 A output class
- Compact board footprint
- Low-loss synchronous conversion

Operating Notes

- Input voltage must provide adequate headroom above 5 V.
- The 3 A rating depends on cooling and PCB wiring.
- Confirm polarity at the solder pads.

Application and Connection Guide

APPLICATION & CONNECTION

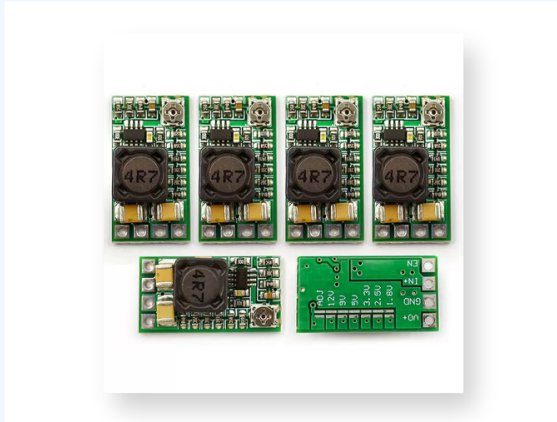


Verify polarity and configure voltage/current before connecting the load.

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 **Up to 97.5% efficiency**
- 2 **5 V / 3 A output class**
- 3 **Compact board footprint**
- 4 **Low-loss synchronous conversion**