

12 A High-Efficiency Adjustable Buck Converter

High-power low-ripple DC-DC step-down module for vehicle 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
Conversion type	Non-isolated DC-DC buck converter
Maximum current class	Up to 12 A
Peak efficiency	Up to 95%
Output	Adjustable regulated DC output
Ripple characteristic	Low-ripple design
Cooling	Dual aluminum heatsinks
Connections	Input and output screw terminals

Key Features

- 12 A high-current class
- Up to 95% peak efficiency
- Low-ripple power conversion
- Large dual heatsinks

Operating Notes

- The saved page does not expose a reliable complete voltage range.
- The 12 A rating requires heavy wiring, strong cooling and a low-impedance source.
- Set the output voltage before connecting the load.

Application and Connection Guide

APPLICATION & CONNECTION

HIGHER DC INPUT

Vehicle / DC source



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 **12 A high-current class**
- 2 **Up to 95% peak efficiency**
- 3 **Low-ripple power conversion**
- 4 **Large dual heatsinks**