

80 W Adjustable DC-DC Boost Converter

High-efficiency step-up module for regulated higher-voltage loads



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 boost converter
Input voltage	3-35 VDC
Adjustable output	4-40 VDC
Maximum power class	80 W
Peak efficiency	Up to 94%
Board dimensions	37 x 32 x 15 mm
Adjustment	Multi-turn output-voltage control
Connections	IN and OUT screw terminals
Operating temperature	-40 to +85 deg C

Key Features

- 3-35 V input range
- 4-40 V adjustable output
- 80 W power class
- Up to 94% efficiency

Operating Notes

- This is a boost converter; output must remain above input.
- Available current falls as the conversion ratio rises.
- Set the output voltage with the load disconnected and provide cooling at high power.

Application and Connection Guide

APPLICATION & CONNECTION

LOWER DC INPUT

3-35 VDC



HIGHER-VOLTAGE LOAD

4-40 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 3-35 V input range

2 4-40 V adjustable output

3 80 W power class

4 Up to 94% efficiency