45-390 V High-Voltage DC-DC Boost Module

Adjustable capacitor-charging supply with protected high-voltage output

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	High-voltage DC-DC boost converter
Input voltage	8-32 VDC
Single-output range	45-390 VDC adjustable
Dual-output option	+/-45-390 VDC; up to 780 V differential
Input over-current protection	Activates above approximately 4.5 A and reduces output voltage
Output over-voltage protection	Activates above approximately 410 V and reduces output voltage
Input reverse-polarity protection	Non-resettable fuse protection
Mounting	Four 3 mm screw positions
Dimensions	Approximately 60 x 50 x 22 mm
Measured capacitor-charge time	470 uF: 2 s; 1000 uF: 4 s; 2200 uF: 8 s; 4700 uF: 18 s to 390 V

Key Features

- 45-390 V adjustable high-voltage output
- Fast capacitor charging
- Over-current and over-voltage protection
- Single- and dual-output variants

Operating Notes

- DANGER: the output voltage can cause fatal electric shock.
- Use only inside a properly insulated, interlocked enclosure with discharge circuitry.
- Do not touch the module or load while energized or before verifying full discharge.

Application and Connection Guide

APPLICATION & CONNECTION

LOW-VOLTAGE DC INPUT

8-32 VDC

HV CAPACITOR / LOAD

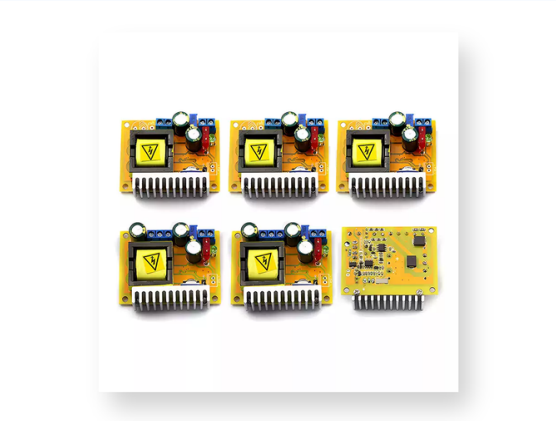
45-390 VDC

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



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