

Semi-Isolated Automatic Buck-Boost Converter

Vehicle and solar regulator for stabilized DC 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	Automatic DC-DC buck-boost converter
Isolation	Semi-isolated architecture stated by source
Function	Maintains regulated output with input above or below setpoint
Output	Adjustable regulated DC voltage
Cooling	Integrated finned heatsink
Connections	Input and output screw terminals
Enclosure	Optional protective cover shown on source page

Key Features

- Automatic buck-boost operation
- Semi-isolated architecture
- Vehicle and solar compatibility
- Heatsink-cooled power stage

Operating Notes

- The saved page does not expose a reliable complete voltage/current range.
- Set output voltage before connecting the load.
- Semi-isolated does not imply safety-rated galvanic isolation; verify system grounding.

Application and Connection Guide

APPLICATION & CONNECTION

VARIABLE DC INPUT

Vehicle / solar bus



REGULATED DC 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 Automatic buck-boost operation

2 Semi-isolated architecture

3 Vehicle and solar compatibility

4 Heatsink-cooled power stage