

XL6009 Automatic Adjustable Buck-Boost Module

Wide-input DC-DC regulator for stable adjustable 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
Controller	XL6009-family
Conversion type	Automatic buck-boost DC-DC regulator
Output	Adjustable regulated DC output
Adjustment	Multi-turn voltage potentiometer
Input / output	Solder-pad connections
Board type	Compact open-frame module

Key Features

- Automatic step-up / step-down
- Wide operating-voltage capability
- Adjustable regulated output
- Compact module construction

Operating Notes

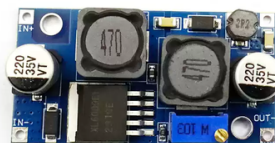
- Set the output voltage before connecting a sensitive load.
- The saved page does not provide a clearly readable complete numeric range; confirm the exact board revision.
- Observe pad polarity and thermal limits.

Application and Connection Guide

APPLICATION & CONNECTION

VARIABLE DC INPUT

Wide-range source



REGULATED LOAD

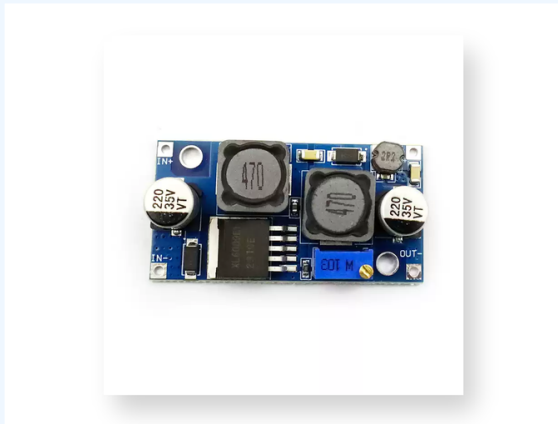
Adjusted output

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 step-up / step-down**
- 2 **Wide operating-voltage capability**
- 3 **Adjustable regulated output**
- 4 **Compact module construction**