DYNAMIC SOLUTIONS

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XL6009 DC-DC Adjustable Boost 4.5-32V To 5-52V With Voltmeter

Features:

The XL6009 DC-DC adjustable boost module is a high-performance non-isolated converter based on the XL6009 chip. It converts low input voltages (4.5V–32V) to higher adjustable output voltages (5V–52V) with up to 94% efficiency. The built-in digital voltmeter allows easy monitoring of input and output voltages. The module supports fine-tuning calibration and low-power display modes, making it suitable for custom power supply designs, battery charging circuits, and embedded electronics requiring step-up voltage conversion.

Specifications	
Module Type	Non-isolated DC-DC boost converter
Rectifier System	Non-synchronous
Input Voltage	4.5V to 32V
Output Voltage	5V to 52V
Maximum Output Current	4A
Efficiency	Up to 94%
Switching Frequency	400kHz
Output Ripple	50mV
Load Regulation	±0.5%
Voltage Regulation	±0.5%
Operating Temperature	-40°C to +85°C
Display	Integrated digital voltmeter
Adjustment Method	Potentiometer (clockwise increase, counterclockwise decrease)
Size	~66x36mm
Usage	Voltage step-up, power supply and DIY electronics projects

Instructions / Operation Notes:

- Short press: Switch display between input and output voltage
- Moderate press: Enter fine-tuning calibration mode (adjust offset)
- Long press: Activate low-power mode (display off, module operates normally)
- Voltage Adjustment: Rotate potentiometer clockwise to increase output voltage, counterclockwise to decrease

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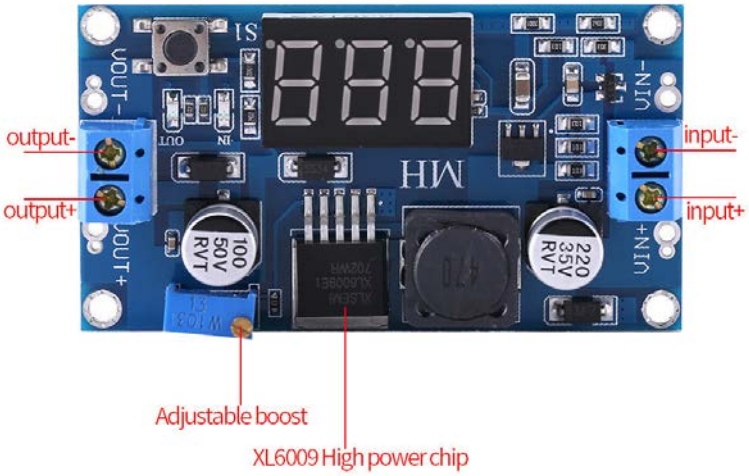
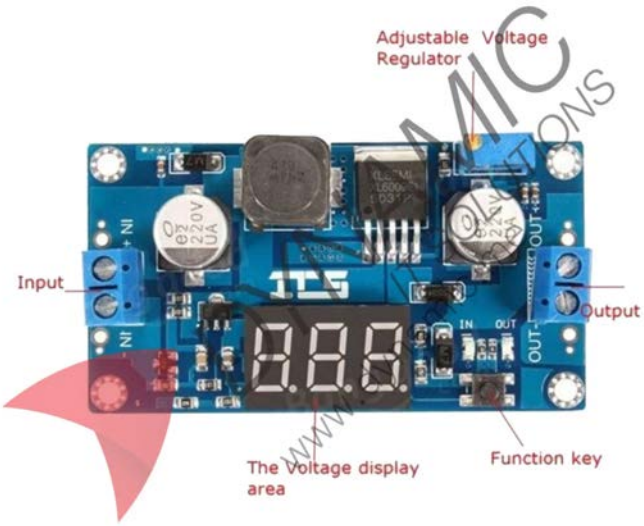
Pinouts:





Product Dimensions: