

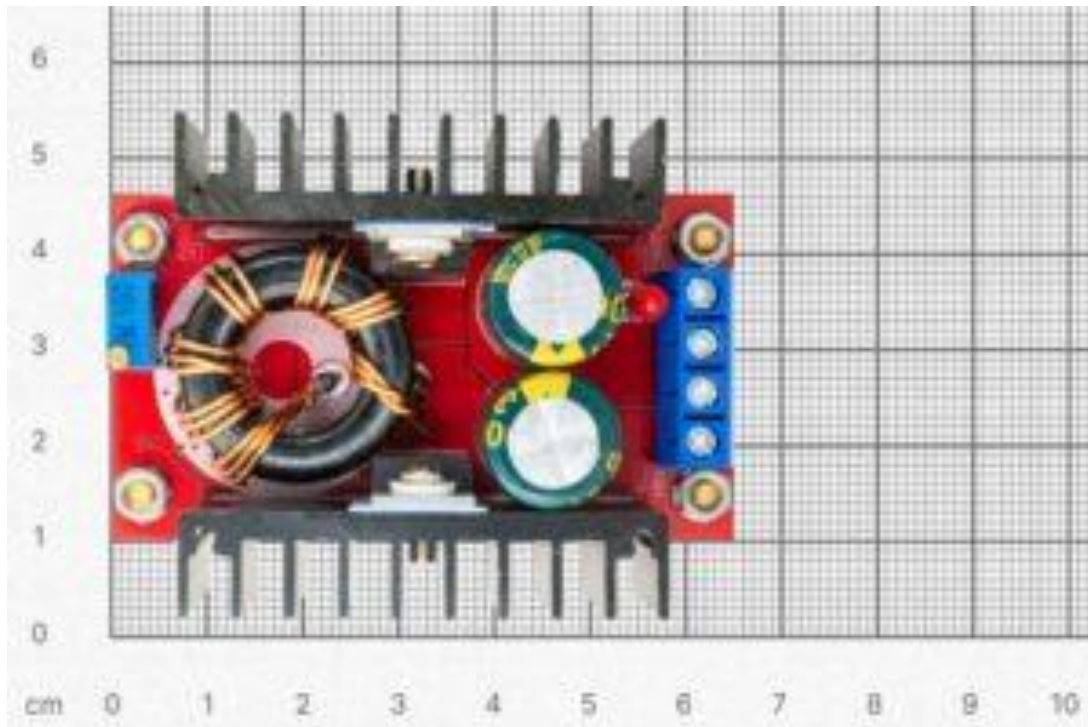
⚡ DC-DC Boost Converter Voltage Step-Up Module 150W 6A

The **DC-DC Boost Converter Voltage Step-Up Module 150W 6A** is a high-performance power module designed to efficiently increase DC voltage from a lower input to a higher output while maintaining stable current delivery. This versatile module is ideal for a wide range of electronics, industrial projects, and DIY applications where voltage step-up is required, such as battery-powered devices, solar energy systems, LED lighting, and robotics projects.

🔧 Key Features

- **High Power Output:** Delivers up to **150W** of power, capable of supplying high-demand devices and systems reliably.
- **High Current Capacity:** Supports a maximum output current of **6A**, providing stable performance for energy-intensive applications.
- **Wide Input Voltage Range:** Can accept input voltages from **5V to 32V DC**, making it compatible with various power sources including batteries, solar panels, and USB power supplies.
- **Adjustable Output Voltage:** The output voltage can be adjusted from **6V up to 35V**, allowing precise control for your specific application needs.

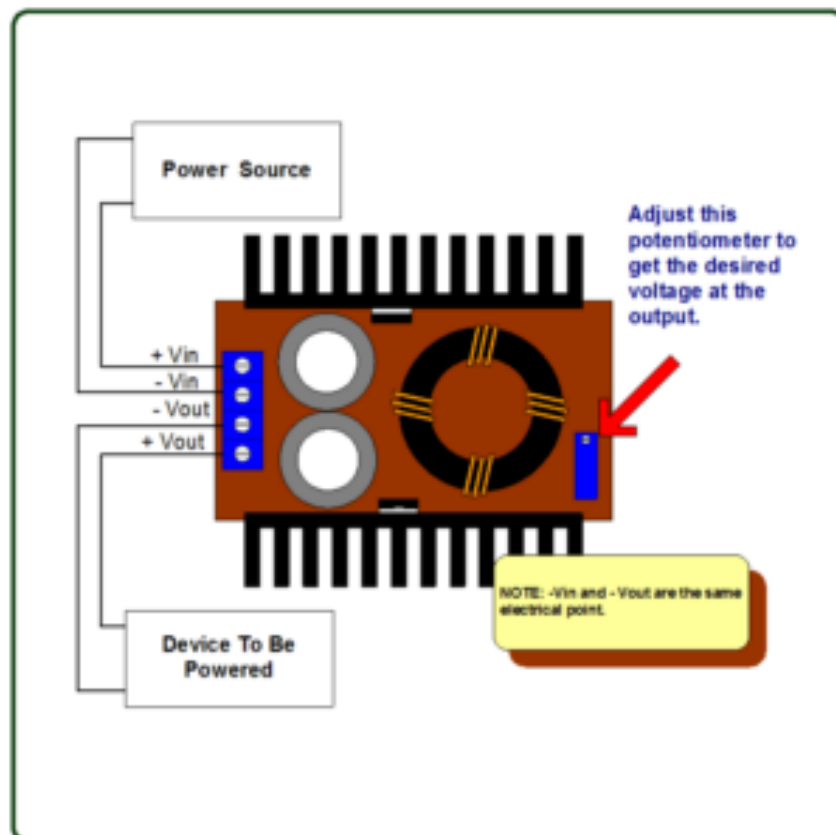
- **High Efficiency:** Designed with advanced switching technology to achieve **up to 92% efficiency**, minimizing energy loss and heat generation.
- **Voltage and Current Protection:** Equipped with over-current, over-voltage, and short-circuit protection to ensure both the module and connected devices are safe during operation.
- **Compact and Durable Design:** Small, lightweight, and robust, making it ideal for tight spaces, portable projects, and embedded systems.
- **LED Indicator:** Built-in LED indicators allow quick monitoring of the module's operational status.



Specifications

Parameter	Value
Input Voltage	5V – 32V DC
Output Voltage	6V – 35V DC (adjustable)
Maximum Output Current	6A
Maximum Power Output	150W

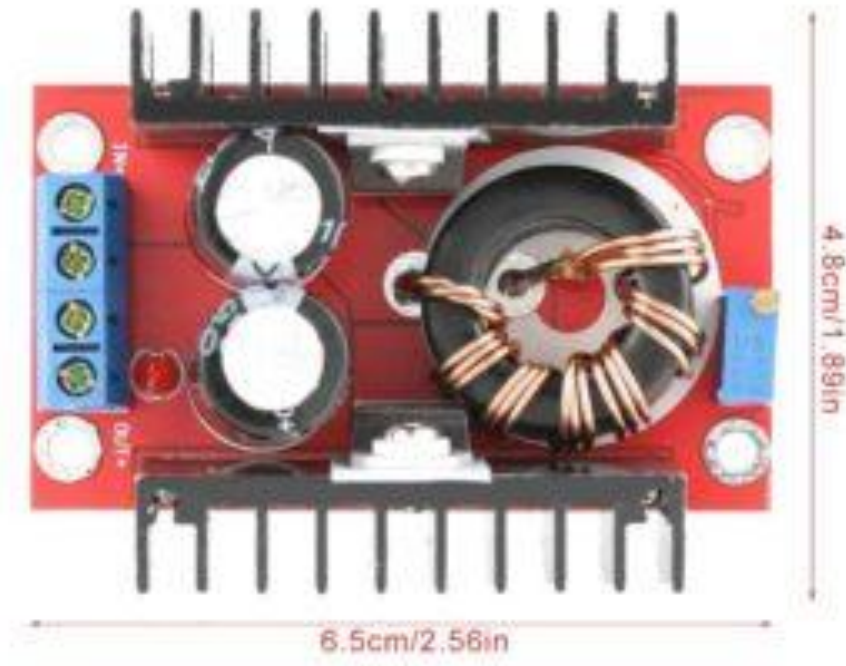
Parameter	Value
Conversion Efficiency	Up to 92%
Voltage Regulation	±1%
Operating Temperature	-40°C to 85°C
Protection Features	Over-current, over-voltage, short-circuit
Dimensions	74mm × 54mm × 23mm



Boost Converter 150w 8A



DC-DC 10-32v
12-35v output



💡 Applications

The **DC-DC Boost Converter Voltage Step-Up Module** is extremely versatile and can be used in a variety of scenarios, including but not limited to:

1. **Battery-Powered Projects:** Step up low-voltage batteries such as 12V or 24V to power devices that require higher voltages.
2. **Solar Energy Systems:** Boost voltage from solar panels to charge batteries or supply stable power to DC loads.
3. **LED Lighting:** Power high-voltage LED strips, LED bulbs, or other lighting devices efficiently.
4. **Electric Vehicles & Robotics:** Provide reliable voltage conversion for motors, controllers, and sensors.
5. **DIY Electronics & Makers Projects:** Ideal for Arduino, Raspberry Pi, and other microcontroller-based projects that require precise voltage regulation.
6. **Portable Devices & Power Banks:** Increase voltage to drive devices that cannot be powered directly from low-voltage sources.

🛡️ Safety and Reliability

This module is engineered for safe, long-term operation. Built-in protections against over-current, over-voltage, and short circuits prevent damage to both the module and connected devices. The compact PCB layout and high-quality components ensure excellent heat dissipation, maintaining performance even under continuous heavy loads.

🔧 Why Choose This Module?

The DC-DC Boost Converter Voltage Step-Up Module 150W 6A is perfect for engineers, hobbyists, and professionals who need:

- **Stable and adjustable output voltage** for sensitive electronics.
- **High power and current capability** for demanding devices.
- **Versatile input options** compatible with batteries, solar panels, and other DC sources.
- **Compact, durable design** suitable for embedded and portable applications.

With this module, you can transform low-voltage power sources into higher, regulated voltages with minimal effort, efficiency loss, or risk of damage. Whether for industrial systems, experimental electronics, or hobby projects, it provides a reliable and professional solution.

🌟 Conclusion

The **DC-DC Boost Converter Voltage Step-Up Module 150W 6A** is a versatile, efficient, and safe voltage step-up solution that meets the demands of modern electronics projects. Its combination of high power, adjustable output, robust protection features, and compact design makes it a must-have for anyone working with DC-powered devices or systems.