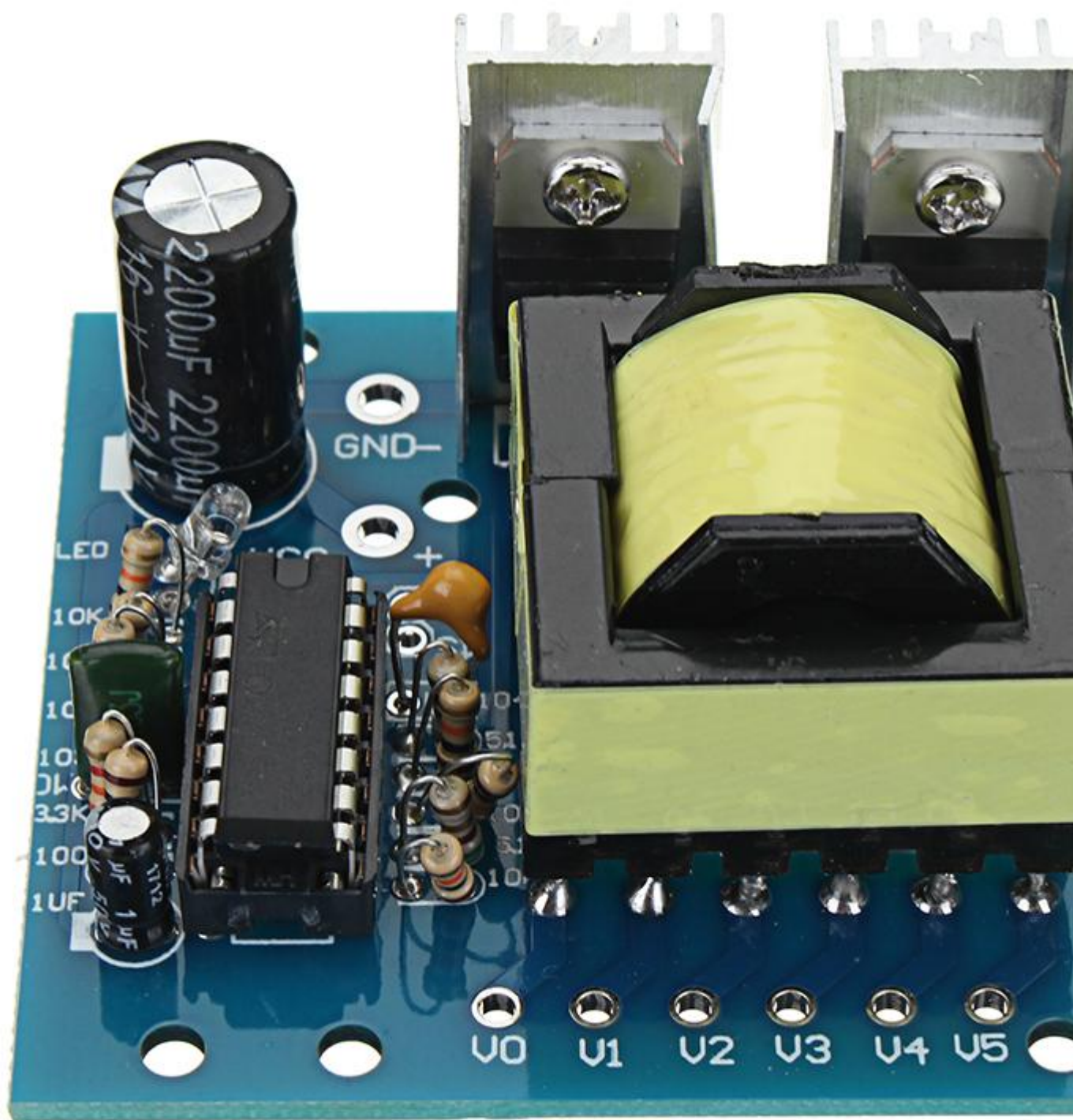
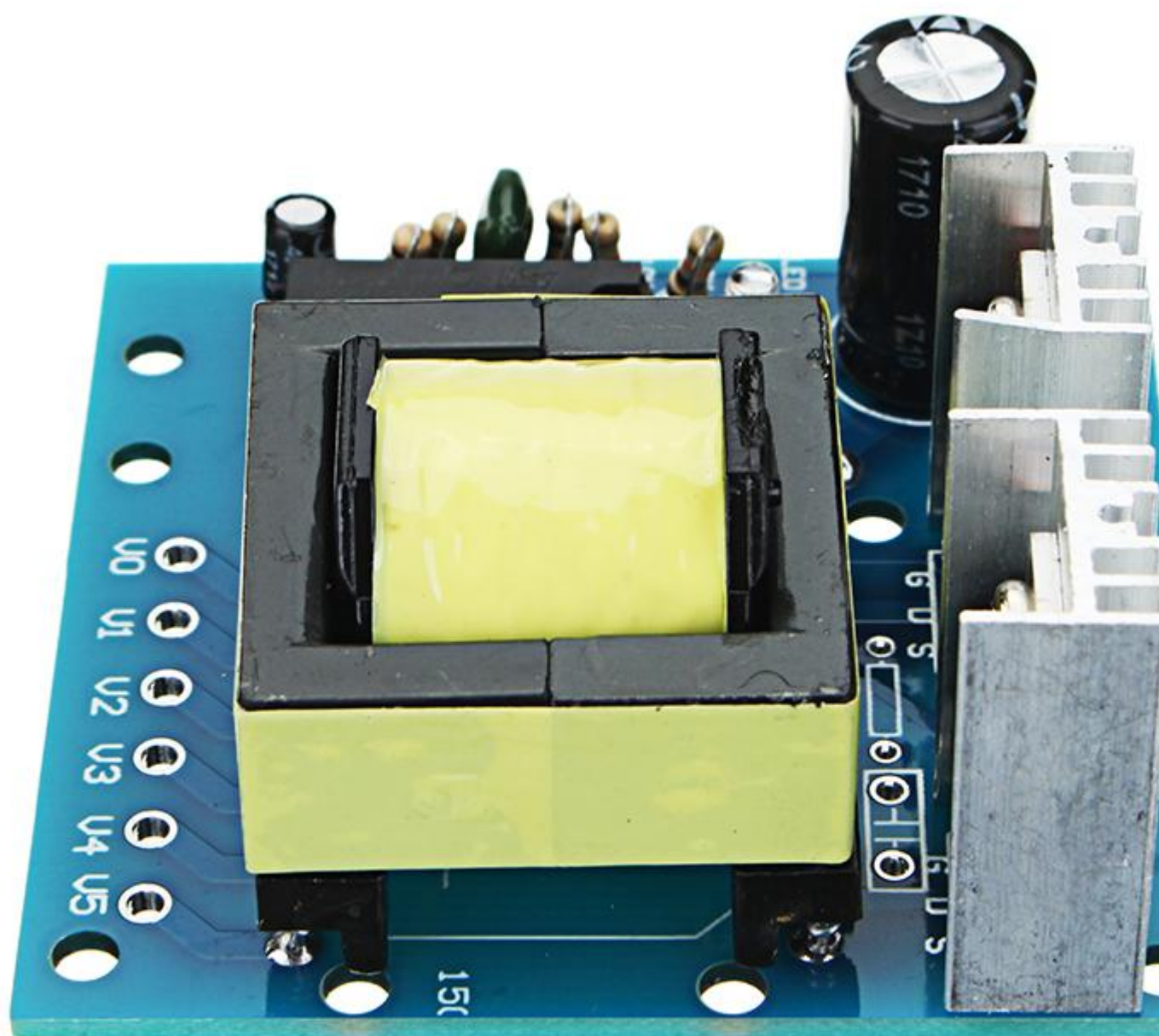


The **Inverter Module DC 12V to AC 110V/175V/220V – 150W** is a compact and efficient power conversion solution designed for electronics enthusiasts, students, and professionals who need to convert low-voltage DC power into standard AC voltage. This inverter is ideal for small appliances, DIY projects, portable power systems, and educational demonstrations, offering flexibility, stability, and high efficiency.

Whether you are experimenting with renewable energy systems like solar panels or designing a portable power supply, this module provides a reliable and cost-effective way to generate AC power directly from a DC 12V source.





## Key Features

- **Input Voltage:** DC 12V
  - **Output Voltage Options:** AC 110V, 175V, or 220V (depending on configuration)
  - **Output Power:** 150W – suitable for small electronic devices and loads
  - **Frequency:** 50Hz / 60Hz (varies by design)
  - **Compact Design:** Lightweight and easy to integrate into DIY and educational projects
  - **Stable Performance:** Provides a steady AC output with minimal fluctuation
  - **Efficiency:** High conversion rate ensures maximum use of DC input power
- 

## Why Choose This Inverter Module?

This inverter module stands out because of its **versatility and affordability**. Unlike bulky inverters used in home systems, this 150W module is designed with makers, students, and professionals in mind. It allows you to experiment with AC generation, power small appliances, and build renewable energy prototypes without requiring large, expensive hardware.

### Benefits:

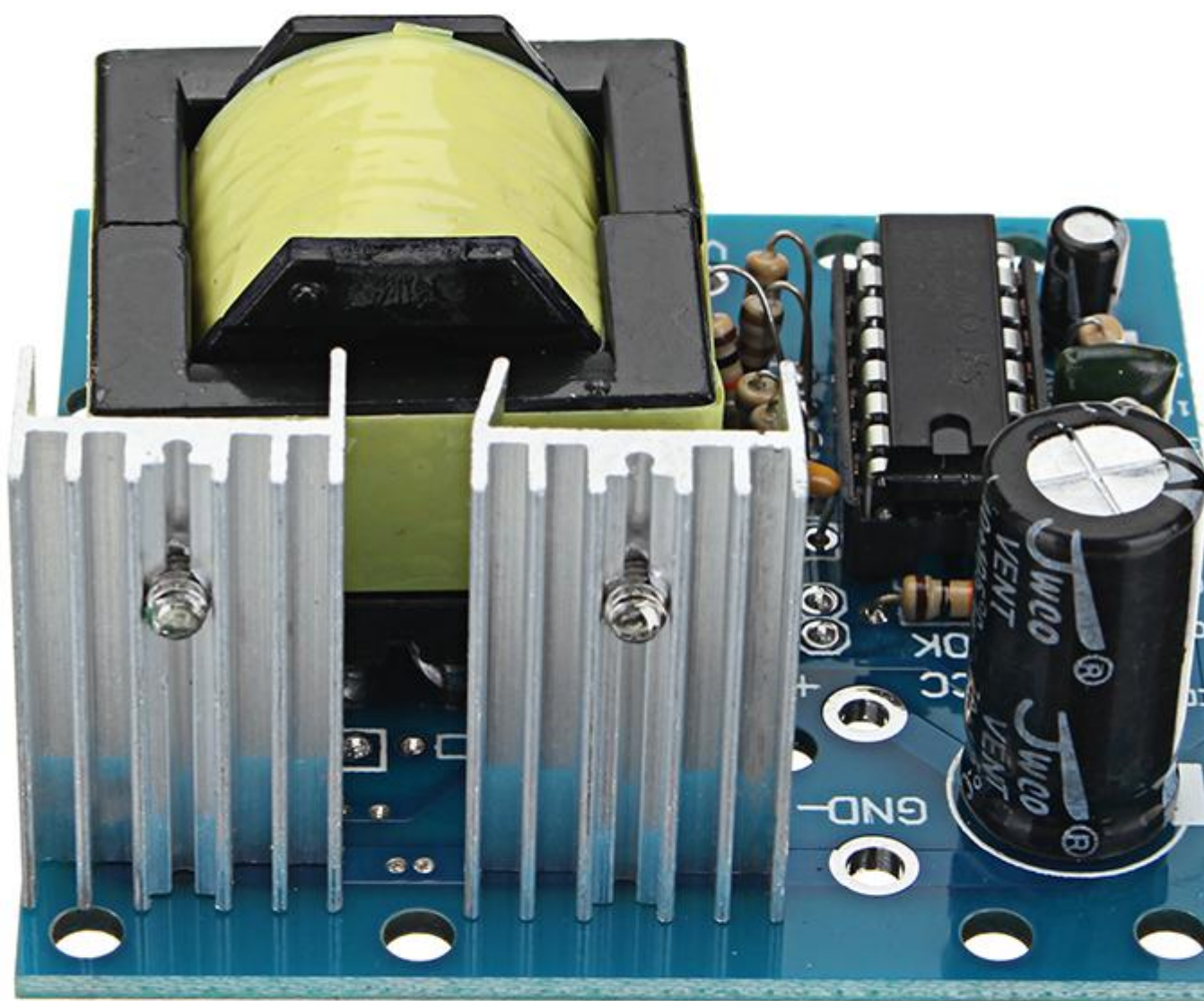
- **Portable and Lightweight** – easy to integrate into custom enclosures or educational kits.
  - **Multiple Voltage Options** – supports 110V, 175V, and 220V AC outputs for flexibility.
  - **Ideal for Learning and Prototyping** – great for demonstrating DC-to-AC conversion in labs and classrooms.
  - **Reliable Conversion** – converts 12V DC into clean and usable AC power for small loads.
  - **Affordable Solution** – budget-friendly for students, hobbyists, and DIY builders.
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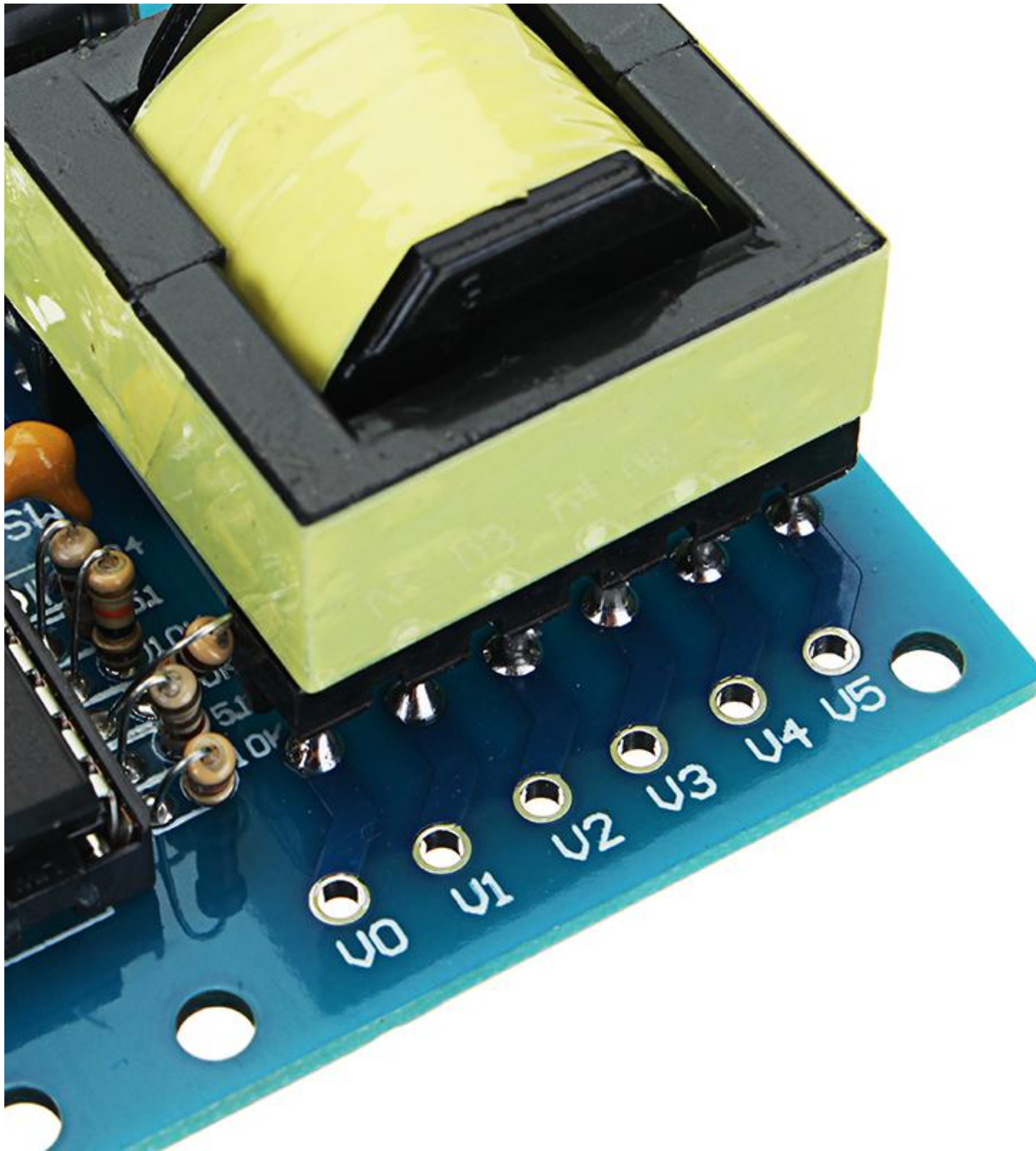
## Applications

The **DC 12V to AC 150W Inverter Module** can be used in a wide range of projects and real-world applications:

1. **Educational Demonstrations** – Perfect for teaching the basics of power conversion and renewable energy systems.
2. **DIY Power Supply Systems** – Create your own inverter for off-grid or backup applications.
3. **Solar Projects** – Pair with solar panels to convert DC power into AC for small devices.
4. **Portable Electronics** – Power small AC appliances from a 12V battery.
5. **Laboratory Use** – Great for experiments in electronics, physics, and renewable energy classes.
6. **Prototyping** – Test and develop renewable energy or portable power systems.







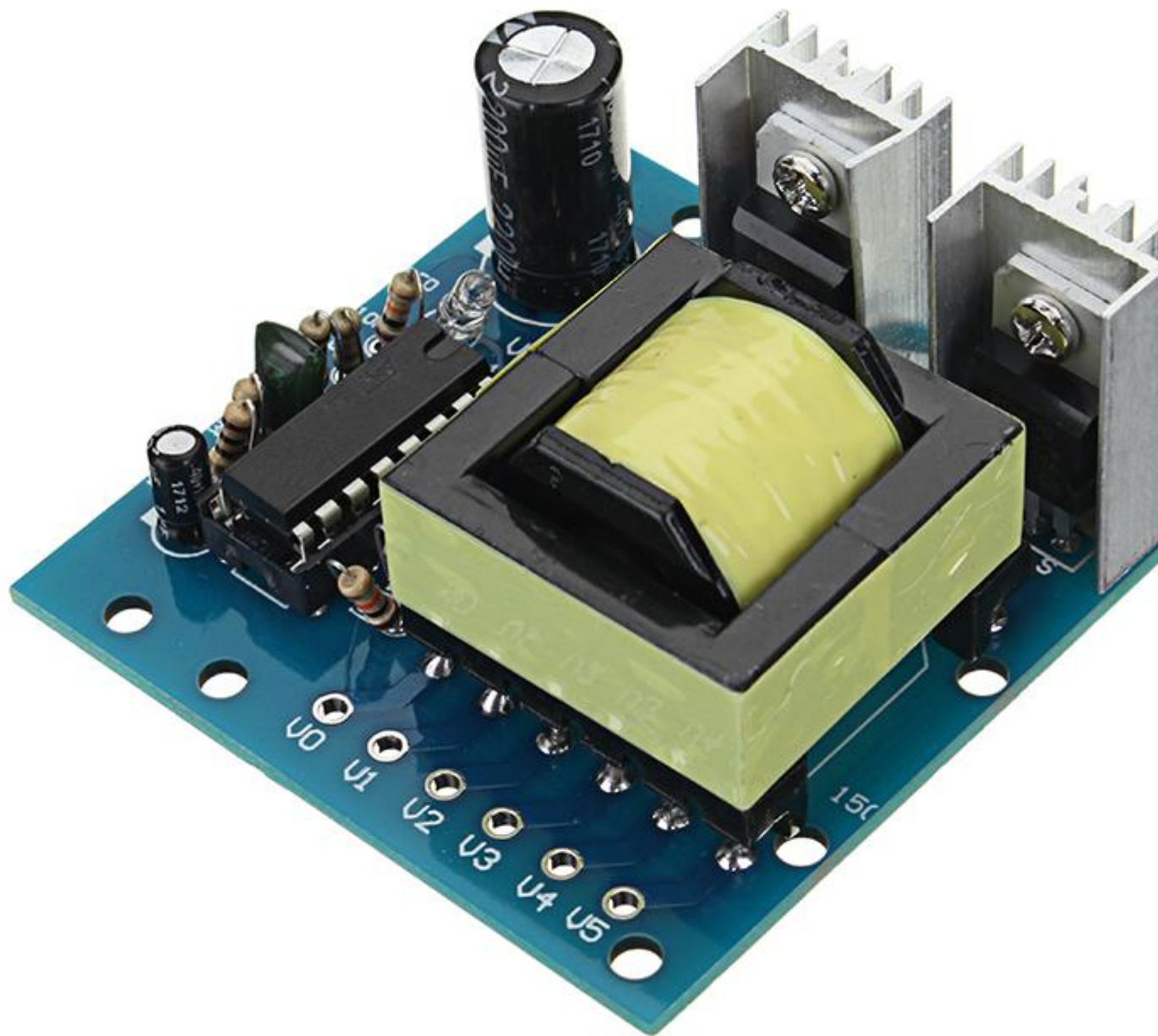
## Important Notes

- This is a **150W inverter**, so it is designed for **small loads only**. Do not connect high-power appliances like refrigerators, electric kettles, or motors.
  - Requires proper ventilation and cooling when operating near maximum capacity.
  - Ensure correct wiring and input power to avoid damage.
  - Recommended for **educational and DIY projects**, not as a replacement for full-scale home inverters.
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## Specifications at a Glance

- **Input Voltage:** 12V DC
- **Output Voltage:** 110V / 175V / 220V AC
- **Maximum Output Power:** 150W
- **Output Frequency:** 50Hz or 60Hz
- **Form Factor:** Compact and lightweight PCB module
- **Cooling:** Passive (external cooling may be required for higher loads)





**Final Thoughts**



The **Inverter Module DC 12V to AC 110V/175V/220V – 150W** is the perfect solution for anyone who wants to explore power conversion in a hands-on and affordable way. Whether you are a student working on a renewable energy project, a hobbyist building a DIY inverter, or an educator demonstrating electricity concepts in the classroom, this module provides a compact, efficient, and budget-friendly solution.

With its reliable performance, flexibility in voltage output, and ease of integration, this inverter module opens the door to endless possibilities in electronics, energy systems, and prototyping.

Take your next project to the next level with the **12V DC to 220V AC 150W inverter module** – simple, practical, and designed.

