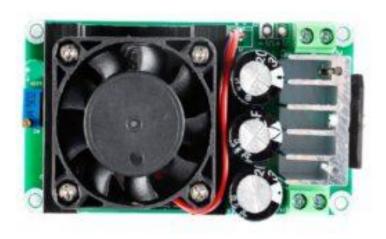
LM338K Rectifier Power Board – Adjustable Linear Regulator + Rectifier Filter

The LM338K Rectifier Power Board Adjustable Linear Regulator with Rectifier Filter is a high-performance, versatile power supply solution designed for hobbyists, engineers, and professionals who need a reliable and stable adjustable DC output. Built around the LM338K linear regulator IC, this power module combines voltage regulation with a rectifier and filter circuit, making it suitable for powering a wide range of electronic devices and DIY projects.

If you are working on a project that requires smooth, stable, and adjustable DC voltage, the **LM338K power supply board** offers the performance and flexibility you need. With its robust design, high current handling capability, and integrated rectifier filter, it delivers excellent efficiency and output stability.



Key Features

- 1. High Current Output
 - The LM338K regulator can deliver up to **5A of continuous current**, making it suitable for medium to high-power applications.
- 2. Adjustable Output Voltage

- o Provides a wide **adjustable range of 1.25V to 32V DC** (depending on input voltage and transformer used).
- o Perfect for powering circuits with different voltage requirements.

3. Integrated Rectifier & Filter

- Equipped with a rectifier bridge and filter capacitors to convert AC input into smooth DC output.
- o Eliminates the need for additional rectifier boards.

4. Robust & Reliable Design

- o Built with high-quality components for long-term performance.
- o Excellent thermal stability and protection.

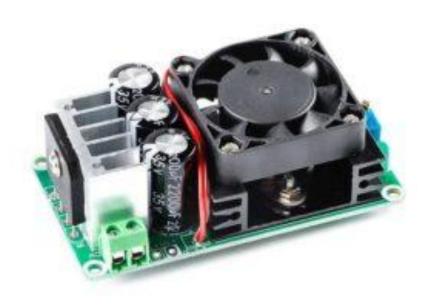
5. Wide Application Range

 Can be used as a **laboratory bench power supply**, charger, amplifier power source, or in DIY electronics projects.

Technical Specifications

- Regulator IC: LM338K Adjustable Linear Regulator
- **Input Voltage**: AC (via transformer) or DC
- Output Voltage: Adjustable 1.25V to 32V DC
- **Output Current**: Up to 5A continuous
- **Circuit Components**: Rectifier bridge + filter capacitors + regulator

- **Cooling**: Heat sink required for high current loads
- **Board Type**: Pre-assembled power supply module



How It Works

The **LM338K Rectifier Power Board** integrates three essential functions:

- 1. **Rectification** Converts AC input voltage (from a transformer) into DC using the onboard rectifier bridge.
- 2. **Filtering** Smooths out the rectified DC with large filter capacitors to reduce ripple.
- 3. **Regulation** The LM338K linear regulator adjusts the output voltage and maintains stability, even under varying load conditions.

This combination ensures a **stable**, **adjustable**, **and noise-free DC power supply** for sensitive electronic circuits.

Applications

The LM338K Adjustable Regulator Board with Rectifier Filter is ideal for:

- **Electronics Labs & DIY Projects** Build your own bench power supply.
- **Battery Charging** Adjustable voltage makes it suitable for different battery types.
- Audio Amplifiers Provides clean and stable DC for Hi-Fi and DIY amplifiers.
- Arduino, Raspberry Pi & Microcontrollers Power development boards and sensors with regulated voltage.
- General Electronics Any project that requires a variable and stable DC supply.

Advantages of Choosing LM338K Rectifier Power Board

- All-in-One Solution Combines rectification, filtering, and regulation in one board.
- **Adjustable & Versatile** One module can power different devices with varying voltage needs.

- **Cost-Effective** Saves time and money compared to building a regulator + rectifier circuit separately.
- **High Reliability** LM338K IC is widely trusted for stable and durable voltage regulation.
- **Beginner Friendly** Easy to use for students and hobbyists, yet powerful enough for professional applications.

Why This Board is Popular Among Makers

Electronics enthusiasts prefer the **LM338K regulator board** because it simplifies the process of building a stable power supply. Instead of connecting separate rectifiers, capacitors, and regulators, this module provides a **ready-to-use solution**. Just connect a transformer to the AC input, and you instantly get a **regulated**, **adjustable DC output** for your circuits.

For beginners, it reduces the risk of wiring errors. For professionals, it saves time and ensures consistent performance in prototypes and final projects.

Conclusion

The LM338K Rectifier Power Board Adjustable Linear Regulator + Rectifier Filter is a must-have tool for anyone who works with electronics. Its combination of high current capability, adjustable output, integrated rectifier, and filter circuit makes it an excellent choice for a wide range of applications.

Whether you are powering microcontrollers, charging batteries, running audio amplifiers, or experimenting with DIY projects, this board ensures you always have a **stable and reliable DC power source**.

© Upgrade your electronics lab today with the **LM338K Rectifier Power Board** – the smart and practical choice for engineers, students, and makers.