Wall Adapter Variable From 1.5V DC To 12V DC (500mA) – Adjustable Power Supply Adapter

The **Wall Adapter Variable From 1.5V DC To 12V DC (500mA)** is a compact and highly versatile **adjustable power supply adapter** designed to provide reliable DC voltage for a wide range of electronic devices and projects. Whether you are an electronics hobbyist, engineer, student, or technician, this variable adapter is a perfect addition to your toolkit, offering flexibility, convenience, and stable performance for powering multiple low-voltage applications.

Overview

This **adjustable wall power adapter** allows users to select output voltages ranging from **1.5V to 12V DC** with a maximum current output of **500mA**. It is ideal for powering small electronic circuits, battery chargers, LED strips, portable devices, Arduino boards, radios, routers, and other DC-powered equipment. The built-in voltage selector switch makes it easy to adjust the output voltage to match your device's requirement without needing multiple adapters.

The adapter features a **universal AC input (100-240V AC)**, making it suitable for use worldwide. It converts the AC power from a wall outlet into a stable DC output, ensuring consistent voltage with minimal noise and ripple — protecting sensitive electronic components from damage due to voltage fluctuations.

Key Features

- 🔌 **Wide Voltage Range:** Adjustable output from **1.5V, 3V, 4.5V, 6V, 7.5V, 9V, up to 12V DC**, allowing maximum compatibility with a variety of devices.

- ⚡ **Stable Output:** Provides a regulated and clean DC voltage ideal for powering delicate electronics and microcontrollers.

- 🔄 **Multiple DC Plug Sizes:** Usually comes with **interchangeable DC plugs** or a standard barrel connector, compatible with many electronics.

- 🔒 **Overload and Short-Circuit Protection:** Built-in protection ensures safe operation and prevents damage from excessive current draw.

- 🌍 **Universal AC Input:** Works with **100-240V AC**, 50/60Hz power input — perfect for home, office, or lab environments.

- 🔋 **Energy Efficient Design:** Compact, lightweight, and designed for efficient power conversion with minimal heat generation.

- 💡 **LED Power Indicator:** A small LED light indicates power status to ensure proper operation.

- 🔧 **Easy Voltage Adjustment:** Simple rotary or slider switch to select the desired voltage output quickly.

Applications

The **Variable Wall Adapter 1.5V–12V (500mA)** is extremely versatile and can be used in numerous scenarios, including:

- ✅ Powering small **DIY electronic projects** and **Arduino boards**.

- ✅ Supplying voltage to **wireless routers**, **modems**, **small speakers**, and **radios**.

- ✅ Operating **toys**, **portable fans**, and **battery eliminator projects**.

- ✅ Testing circuits or devices that require variable voltage levels.

- ✅ Ideal for **educational labs** and **engineering students** who work with different voltage requirements.

- ✅ Useful for **repair technicians** and **hobbyists** who often need to power a variety of low-power devices.

Specifications

Specification	Details
Input Voltage	100-240V AC, 50/60Hz
Output Voltage	Adjustable 1.5V / 3V / 4.5V / 6V / 7.5V / 9V / 12V DC
Output Current	500mA (Max)
Connector Type	DC barrel plug (varies by model)
Polarity	Selectable in some models (center positive or negative)
Cable Length	Approximately 1 meter
Indicator	LED power indicator
Material	Durable ABS plastic housing
Color	Black
Operating Temperature	0°C – 40°C

Advantages

Using a **variable voltage wall adapter** eliminates the need for owning several fixed-voltage adapters. With just one compact device, you can power many different gadgets by simply adjusting the voltage output. It's cost-effective, space-saving, and especially practical for technicians and electronics enthusiasts who frequently experiment with different circuits.

Additionally, the **500mA output current** makes it suitable for low-power electronic systems and ensures stable operation without overheating. The adapter's internal protection circuitry safeguards your devices against overvoltage, overload, and short circuits — ensuring long-lasting and safe performance.

Why Choose This Adapter?

- ◆ Reliable and consistent power output

- ◆ Easy to use and adjust

- ◆ Ideal for educational and hobby projects

- ◆ Compact and travel-friendly design

- ◆ Compatible with a wide range of electronics

Conclusion

The **Wall Adapter Variable From 1.5V DC To 12V DC (500mA)** is the perfect power solution for anyone needing a flexible and dependable DC power source. Whether you are testing new circuits, replacing multiple adapters, or building your next DIY project, this variable power supply adapter will provide all the versatility and stability you need.

Power your projects the smart way — with one adapter for all your voltage needs!