

# AA Battery Holder 4 Cell with On/Off Switch – Product Description

The **AA Battery Holder 4 Cell with On/Off Switch** is an essential accessory for anyone working with battery-powered electronics. Designed to hold four AA batteries securely and provide easy power control through an integrated on/off switch, this holder is perfect for DIY electronics, Arduino projects, robotics, LED circuits, and portable devices.

With this battery holder, you can ensure a reliable and stable power supply while maintaining safety and convenience. The integrated on/off switch allows you to easily turn your device on or off without disconnecting the batteries, saving energy and extending battery life.









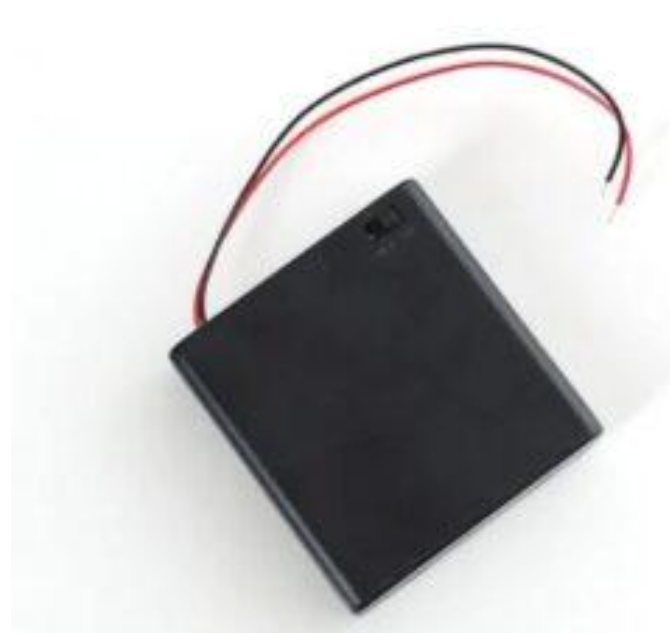
## What Is an AA Battery Holder?

An **AA battery holder** is a compact enclosure that houses batteries while providing reliable electrical contacts. Instead of soldering wires directly to batteries, which can be risky, a battery holder allows you to insert and replace batteries easily.

The **4-cell version** holds four AA batteries side by side, producing a total voltage of approximately **6V** (1.5V per battery). This makes it ideal for powering circuits that require more voltage than a 2-cell or 3-cell setup.

## Key Features

-  **Four AA Battery Slots** – Holds  $4 \times$  AA batteries in series.
-  **Integrated On/Off Switch** – Conveniently control power without removing batteries.
-  **Durable Construction** – Made from high-quality ABS plastic with sturdy metal contacts.
-  **Easy Wiring** – Leads or solder lugs provided for quick connection to circuits.
-  **Compact and Portable** – Perfect for DIY electronics, Arduino projects, and portable devices.
-  **Reusable and Safe** – Batteries can be swapped easily without soldering.



## Why Choose the AA Battery Holder 4 Cell with Switch?

The **AA Battery Holder 4 Cell** provides convenience, safety, and reliability for any battery-powered project. By securely holding batteries and providing stable connections, it ensures your circuits run smoothly.

The integrated on/off switch enhances convenience, allowing you to conserve battery life and control power without physically disconnecting the cells. This is especially useful for portable electronics, prototypes, and classroom experiments.

## Applications

This battery holder is versatile and suitable for a wide range of electronics projects, including:

1. **Arduino and Microcontroller Projects** – Power sensors, modules, and small devices.
2. **Robotics** – Supply energy to motors, servos, and controllers.
3. **LED Lighting Circuits** – Run LED strips, flashlights, and small displays.
4. **DIY Electronics Kits** – Safe and easy to use for educational electronics kits.
5. **Prototyping and Testing** – Easily swap batteries during circuit experiments.
6. **Portable Devices** – Ideal for handheld or battery-powered electronics requiring 6V.

## Technical Specifications

- **Model:** AA Battery Holder 4 Cell with On/Off Switch
- **Battery Type:** AA (1.5V each)
- **Number of Slots:** 4 in series
- **Output Voltage:** 6V ( $4 \times 1.5V$ )
- **Material:** ABS Plastic

- **Contacts:** Metal spring terminals
- **Switch Type:** Inline On/Off toggle switch
- **Wires/Leads:** Pre-attached for easy connection
- **Dimensions:** Compact, lightweight, and portable design



## Benefits for Hobbyists and Makers

The **AA Battery Holder 4 Cell with On/Off Switch** is ideal for makers, hobbyists, and students. It allows safe, modular, and reusable battery connections for a variety of projects. Its integrated switch simplifies power management and conserves battery life.

For educators, it offers a safe and convenient way to teach electronics, allowing students to experiment with battery-powered circuits without the risk of short circuits or direct soldering.

## Safety Considerations

Always insert batteries with correct polarity (+/-) to prevent damage to the holder or connected devices. Use high-quality AA batteries and avoid mixing old and new cells. This holder is designed for low-current electronics projects, so ensure your project does not exceed the recommended current rating.

## Why Add It to Your Toolkit?

If your projects rely on AA batteries, the **AA Battery Holder 4 Cell with On/Off Switch** is a must-have accessory. It keeps batteries secure, organized, and ready for use while providing easy power control. Perfect for Arduino, robotics, LED circuits, DIY kits, and portable devices, this battery holder improves safety, convenience, and efficiency.



## Conclusion

The **AA Battery Holder 4 Cell with On/Off Switch** combines durability, convenience, and safety in a compact design. Securely hold four AA batteries, provide a stable 6V power supply, and easily control devices with the integrated on/off switch.

Ideal for hobbyists, students, and professionals, this battery holder is essential for Arduino projects, robotics, DIY electronics, and portable devices. Its reliable construction and modular design make it a versatile and indispensable tool for powering your projects efficiently.