

18650 Battery Holder 3-Slot – Product Description

For anyone working with rechargeable lithium-ion batteries, having a reliable battery holder is essential. The **18650 Battery Holder 3-Slot** is designed to safely house and connect three 18650 lithium-ion cells, providing stable electrical connections for your projects. Compact, durable, and versatile, this battery holder is perfect for electronics hobbyists, students, engineers, and makers who use 18650 batteries in DIY projects, Arduino boards, robotics, and portable devices.



What Is an 18650 Battery Holder?

An **18650 battery holder** is a casing designed to securely hold cylindrical 18650 lithium-ion cells while providing reliable electrical contacts. Instead of soldering directly to the batteries, which can be dangerous, a battery holder allows easy insertion and removal of cells.

The **3-slot version** can accommodate three 18650 cells side by side, offering the flexibility to wire them in **series** (increasing voltage) or **parallel** (increasing capacity), depending on the requirements of your project.

Key Features of the 18650 Battery Holder 3-Slot

-  **Three-Slot Design** – Holds 3 × 18650 rechargeable lithium-ion batteries.
-  **Flexible Wiring Options** – Supports series (for 11.1V nominal) or parallel (3.7V nominal with triple capacity).
-  **High-Quality Construction** – Durable ABS plastic body with nickel-plated spring steel contacts ensures solid connections.
-  **Easy Integration** – Comes with solder lugs or wire leads for quick and secure connections.
-  **Compact and Portable** – Ideal for DIY electronics projects where space is limited.
-  **Safe and Reusable** – Batteries can be swapped without soldering, reducing risks and improving safety.



Why Choose the 18650 Battery Holder 3-Slot?

Using lithium-ion batteries safely is critical. Direct soldering can lead to overheating or battery damage. The **18650 Battery Holder 3-Slot** eliminates this risk by securely holding the batteries in place while maintaining reliable electrical connections.

Compared to cheaper alternatives, this holder is made with high-quality plastic and spring contacts that resist wear and ensure long-lasting durability. It allows flexible configurations and keeps your batteries organized, making it ideal for prototypes, hobby projects, or professional electronics applications.



Applications

The **3-slot 18650 battery holder** is highly versatile and widely used in electronics projects:

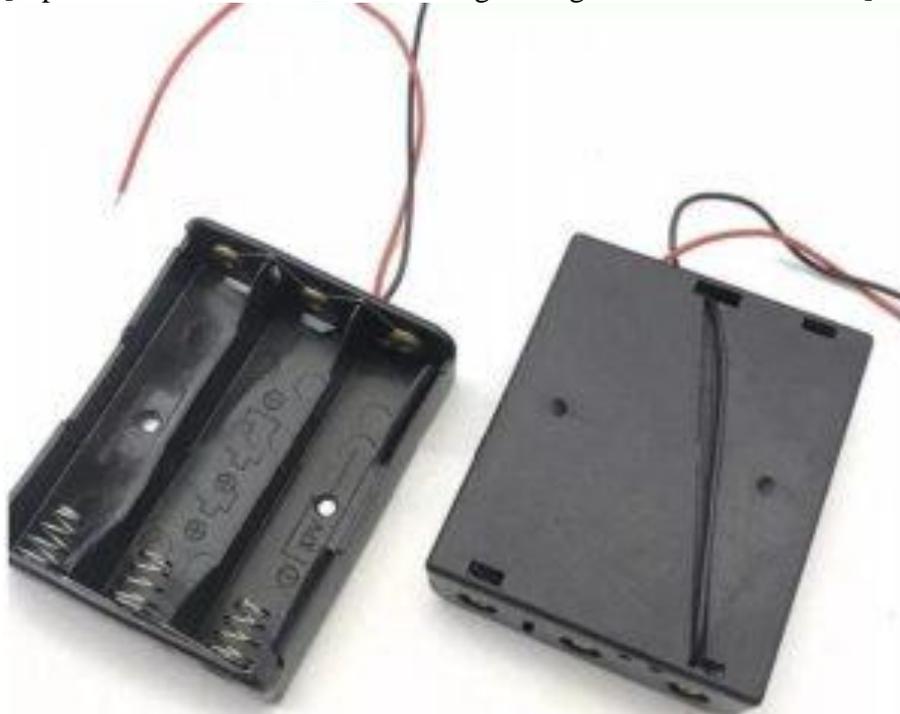
1. **Arduino and Raspberry Pi Projects** – Provides stable power for microcontrollers and peripheral devices.
2. **Robotics** – Powers motors, servos, and sensors for mobile robots and automated systems.
3. **DIY Power Banks** – Create portable battery packs by combining multiple 18650 cells.
4. **LED Lighting Projects** – Suitable for powering LED strips, flashlights, and custom light designs.
5. **Prototyping and Testing** – Easily swap batteries during circuit experiments without soldering.
6. **STEM Education** – Safe and convenient for teaching electronics and battery systems.



Technical Specifications

- **Model:** 18650 Battery Holder (3-Slot)
- **Battery Type:** 18650 Lithium-Ion (3.7V nominal, 4.2V full charge)
- **Slots:** 3 (side by side)
- **Material:** ABS Plastic Body
- **Contacts:** Nickel-plated spring steel
- **Output Configuration:** Series (11.1V nominal) or Parallel (3.7V nominal, triple capacity)
- **Mounting:** Free-standing or through-hole soldering
- **Dimensions:** Compact, lightweight design suitable for various electronics projects

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Version 1.0.0[/caption]

Benefits for Makers and Hobbyists

The **18650 Battery Holder 3-Slot** provides convenience and reliability for all your battery-powered projects. Its modular design allows you to remove and replace batteries effortlessly, saving time during prototyping and testing. The ability to wire batteries in series or parallel gives you control over voltage and capacity for different project needs.

Students and educators benefit from the safety features, as the holder eliminates the risks associated with soldering directly to lithium-ion cells, making classroom experiments safer and more efficient.

Safety Considerations

Lithium-ion batteries are powerful energy sources that require careful handling. The **3-slot battery holder** offers added safety by keeping cells securely separated and correctly aligned. Always ensure correct polarity when inserting batteries and use high-quality cells with built-in protection circuits whenever possible.

Why Add It to Your Toolkit?

If your projects rely on 18650 lithium-ion batteries, the **18650 Battery Holder 3-Slot** is a must-have. It keeps batteries secure, organized, and ready for use while providing the flexibility to configure voltage and capacity as needed. Ideal for robotics, Arduino projects, DIY power banks, and more, this battery holder enhances safety, convenience, and efficiency.

Conclusion

The **18650 Battery Holder 3-Slot** is an essential accessory for anyone working with 18650 lithium-ion batteries. With its durable construction, versatile wiring options, and compact design, it is perfect for electronics enthusiasts, students, and professionals alike.

Whether you are building portable power solutions, robotics, LED systems, or Arduino-based projects, this holder ensures a safe, reusable, and reliable solution for connecting three 18650 batteries. It's a small but invaluable addition to any electronics toolkit.