Internal battery RB (6.4V/36Ah)

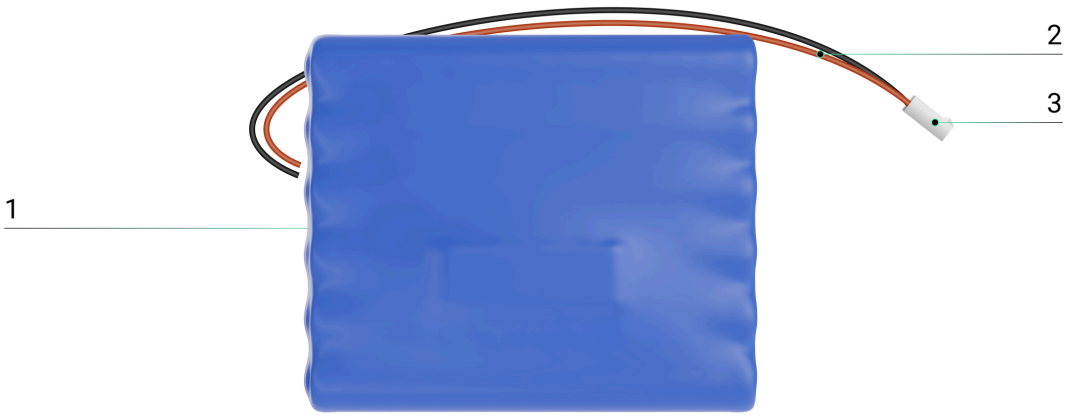
Updated January 20, 2026



Internal battery RB (6.4V/36Ah) is a rechargeable battery for powering the hub. It consists of a pack of 36 lithium iron phosphate ($LiFePO_4$) rechargeable cell batteries.

Buy Internal battery RB (6.4V/36Ah)

Functional elements



1. Battery.
2. Cable.
3. Connector for attaching the battery to the hub.

Compatible hubs

A compatible Ajax hub is required for the battery to operate.

Check device compatibility

Operating principle

Internal battery RB (6.4V/36Ah) is an internal rechargeable battery used to power the hub. It can power the hub both independently and as a backup power source when an external battery is used.

Selecting an installation site

When choosing the battery location, consider the factors that affect its operation:

- Operating temperature range.
- Permissible humidity level.

The battery must be installed in the casing of the compatible hub.

Consider the placement recommendations when designing your Ajax system. The security system must be designed and installed by specialists. The list of recommended Ajax partners is **available here**.

Where not to install the battery

1. In places with high temperature — for example, near heat sources, such as radiators, heaters, direct sunlight, etc. High temperature can cause battery overheating, rapid self-discharge, damage to its components, explosion, or fire.
2. In places with high humidity. Moisture can corrode the contacts or cause a short circuit.
3. Near flammable materials. Never place the battery near flammable liquids or materials. Doing so increases the risk of fire or explosion, especially if a short circuit occurs.

Preparing for installation

Before installing Internal battery RB (6.4V/36Ah), ensure it is compatible with the hub. Also, read this manual and the hub user guide.

> User manuals for Ajax hubs and other devices can be found on the Ajax Support page.

Avoid deviations from the system project. Violating the basic installation rules and the recommendations of this manual may cause the device to operate incorrectly.

Cable arrangement

When preparing for cable routing, read and strictly follow the electrical and fire safety regulations in your area.

Installation and configuration

Before installation, ensure that you have selected the optimal device location that meets the requirements of this manual.

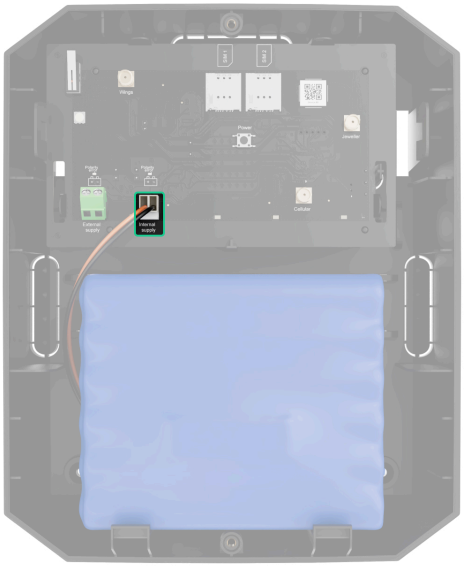
Only a professional electrician may install the device.

Installing the battery in the casing

Before installing the battery, read the user manual of the compatible hub. This will help you install the battery correctly and configure the hub settings after installation.

1. Remove the front panel of the hub casing.
2. Turn off the hub.
3. Locate the internal battery connector on the board (**Internal supply**).
4. Connect the battery to the board connector.

Observe the polarity. If the battery is connected incorrectly, it will not power the hub, and the connector can be damaged.



> The battery cable should not lie on or under the hub board, as this can impair communication with the hub.

5. Secure the battery in the casing with ties. Do not tighten the ties too much to avoid damaging the board and cell contacts inside the battery.



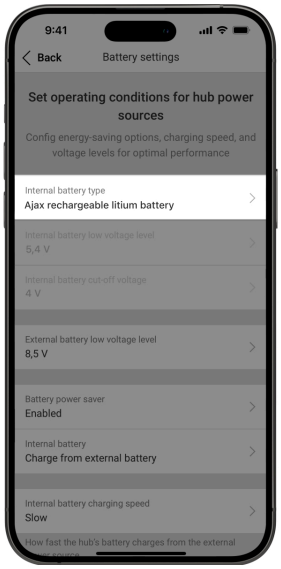
6. Turn on the hub.
7. Close the hub casing.
8. **Select the battery type** in the hub settings.
9. Check the battery connection **state** in an Ajax app.

Configuring the battery

After installing the battery, select the correct hub settings in the **Ajax PRO** app.

1. Select the required space or object.
2. Go to the **Devices** tab.
3. Select the hub from the list.
4. Go to its **Settings**.

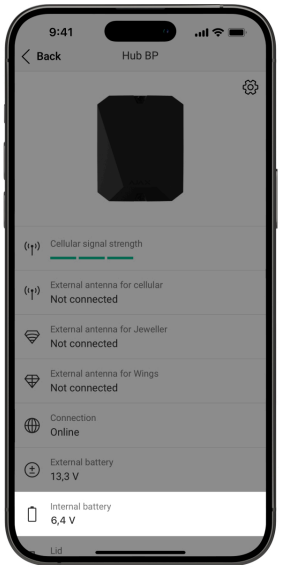
5. Go to the **Service** menu.
6. Go to the **Battery settings** menu.
7. Select the **Rechargeable lithium battery** option for the **Internal battery type** setting.
8. Configure other battery settings if necessary.
9. Tap **Back** to save the settings.



States

The hub states include information about the battery connection status. They can be found in **Ajax apps**:

1. Go to the **Devices** tab.
2. Select the hub from the list.



Maintenance

Internal battery RB (6.4V/36Ah) is rechargeable and maintenance-free.

Recommended battery chargers

Before using the battery charger, carefully read the manufacturer's instructions. They contain guidance on safe use and recommended parameters.

The complete set includes the cable adapter for connecting the battery to the charger.

> When charging the battery, use the **temperature sensor** recommended by the corresponding battery charger manufacturer.

List of recommended battery chargers for Internal battery RB (6.4V/36Ah)

Manufacturer	Model	Full battery charge time	Notes
SkyRC	Ultimate Duo 400W	11 hours	Supports simultaneous

			charging of two batteries.
SkyRC	iMAX B6mini	11 hours	
SkyRC	iMAX B6AC V2	11 hours	
ToolkitRC	M6DAC	11 hours	Supports simultaneous charging of two batteries.
HTRC	T240 DUO	11 hours	
EV-PEAK	C1-XR	11 hours	
Hitec	RDX1 Mini	11 hours	

Charging profile and recommended parameters for the battery charger

Parameter	Value
Battery type	LiFe
Charging current	4 A
TVC (Terminal Voltage Control)	7.2 V
Temperature cutoff	+45 °C / 113 °F
Cell configuration	2S
Capacity cutoff	Off
Safety timer	720 minutes

Storage conditions

The battery should be stored in a cool, dry, and well-ventilated place at a temperature not exceeding +30 °C. The battery should be charged to about 30–50% of its capacity. These conditions are necessary to reduce battery degradation.

It is recommended that the battery be charged once every six months to prevent overdischarge.

Technical specifications

All technical specifications

Compliance with standards

Contacting technical support

If the device does not operate properly, we recommend contacting Ajax technical support first. In most cases, technical issues can be resolved remotely.

- email
- Telegram