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AJAX 6V PSU Hub 2 Power Supply Unit User Manual

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6V PSU Hub 2/Hub 2 Plus is a power supply unit, connecting Hub 2 and Hub 2 Plus control panels to 6 and 12-volt DC sources. This is an electronic board, replacing the standard 110/230 V power supply unit in the body of the device. How to calculate Hub 2 or Hub 2 Plus operation time from the portable battery when connecting via 6V PSU

Installing

6V PSU Hub 2/Hub 2 Plus should be installed by a qualied electrician only. Before installing the power supply, make sure that the device is disconnected from the mains. When installing the 6V PSU Hub 2/Hub 2 Plus, follow the general electrical safety rules, as well as the requirements of electrical safety regulatory acts. Never disassemble the device while it is under voltage! What is the difference between 6V PSU and 12V PSU?

Installation process

1. Remove the screws and take off the device from the SmartBracket mounting panel, shifting it down with force.

2. Switch off the device holding the power button for 2 seconds.

3. Disconnect power and Ethernet cables.

- Wait 5 minutes for the capacitors to discharge.

4. Remove four screws from the back lid and take it off.

5. Remove the screws attaching the boards to the device body.

6. Carefully remove both boards, keeping them in the same plane and not disconnecting them. There is a connector between boards: do not break it.

7. Disconnect the power supply unit (smaller board) from the mainboard.

8. Connect 6V PSU Hub 2/Hub 2 Plus to the mainboard using the eight-pin connector between them. Do not warp or bend the antennas while replacing the board: this can cause the device to malfunction.

- **Please note:** the board contacts should be plugged in the bottom row of the connector (closest to the board). When connected correctly, the boards are on the same level.

9. Reassemble the boards and the device body then tighten the screws.

   - Check that the battery and its cables are not clamped. When installed properly, the boards stand firmly on all guides and do not stagger.
   - Holding the boards together with the back lid, turn the device over.
   - The SIM card slots, power, and Ethernet sockets should match accurately and t the corresponding sockets, and the power button should not be stuck.
   - Change the information about input voltage on the device body to avoid incorrect power connections in the future. Use the special bundled sticker with the instruction.

10. Connect the power (and Ethernet cable) to the appropriate sockets.
11. Switch on the 6 V power source.

    - Do not connect the power cable with a voltage that exceeds the acceptable input voltage.

12. Switch on the device by holding the power button for 2 seconds.
13. Close and x the SmartBracket mounting panel.

Switch on the device, wait until loading, and check the external power status in the Ajax app. If there is no power, and you are using a terminal adapter, check the polarity of the connected wires. If there is no power even after reconnecting, please contact the Support Service. We recommend using zinc-air alkaline batteries for long-term autonomous operation. Before connecting such a battery, make sure that all the stickers have been removed, and valves capping the air access are open. If possible, leave the battery with access to air for up to 2 hours. This will start a chemical reaction inside and ensure proper functioning.

Maintenance

The device does not require technical maintenance.

Tech specs

Compatibility	Hub 2 and Hub 2 Plus
Input voltage	4.2-16 V DC

Output voltage	4.8 V DC ± 5%
Switch on voltage	4.2 V DC ± 2.5%
Switch off voltage	3-3.4 V (depending on load)
Max input current	2,2 A on 4,2 V; 0,5 A on 16 V
Max output current	1,5 A
Temperature range	from -10°C to +40°C
Humidity	Up to 75%
Connection to mains	Socket: 6.5 × 2 mm Plug: 5.5 × 2,1 mm
Dimensions	98 × 70 × 17 mm
Weight	26 g
Service life	10 years

Complete Set

1. 6V PSU Hub 2/Hub 2 Plus
2. Terminal adapter
3. Quick start guide

Warranty

- Warranty for the AJAX SYSTEMS MANUFACTURING Limited Liability Company products is valid for 2 years after the purchase.
- If the device does not function correctly, please contact the Support Service

Documents / Resources

AJAX 6V PSU Hub 2 Power Supply Unit [pdf] User Manual
6V PSU Hub 2, Power Supply Unit, 6V PSU Hub 2 Power Supply Unit, Supply Unit, Unit

References

- ☞ **End user agreement - Ajax Systems**
- ☞ **6V Power Supply Unit for Hub 2/Hub 2 Plus | Ajax Systems**
- ☞ **Ajax devices standards compliance list**
- ☞ **Warranty - Ajax Systems**
- ✉ **What is the difference between 6V PSU and 12V PSU | Ajax Systems Support**
- ✉ **How to calculate Hub 2 or Hub 2 Plus operation time from the portable battery when connecting via**

6V PSU | Ajax Systems Support