

Assembly procedure

There are no user-serviceable parts inside the product. Opening the cover exposes you to the risk of electric shock and voids the warranty.

To install the Original Prusa PDU on your device, use the designated mounting holes and M4 screws.

Placement and Basic Use

Ensure that the device is located and operated in a suitable place to prevent any potential risks.

- This device is intended for indoor use only. Do not expose the device to water or snow. Contact with water and other liquids can damage the electronics, cause short circuits, and other types of damage. Always operate the product in a dry environment.
- Disassembling the product is prohibited as it may result in electric shock.
- If the product has suffered physical damage, do not use it. Damaged parts of the product may pose a safety risk.
- The power cable must be placed in a way that it cannot be tripped over, stepped on, or otherwise damaged. Ensure that the cable is not damaged. If it is, immediately stop using the device and replace the cable. Damaged cables pose an electrical shock hazard.

Electrical Safety

To prevent the risk of electric shock, follow the instructions below.

- The Original Prusa PDU can only be powered through a standard socket with 230 VAC, 50 Hz, or 110 VAC, 60 Hz. Never use alternative power sources as they can cause problems or damage the product.
- Never use the Original Prusa PDU if the power cable is damaged in any way. Damaged cables can cause electric shock.
- When disconnecting the power cable from the socket, do not pull on the cable but on the plug. This reduces the risk of damaging the plug or socket.
- Do not disassemble the product as it does not contain any parts that an unqualified person can repair. Always refer the product to a qualified service technician. Improper interventions can result in product damage and the risk of electric shock.
- The cross-section of the conductors in the flexible supply cord must be a minimum of 1.5 mm², and a three-core supply (L, N, PE) must be used.
- Disconnect the device from the power supply by pulling out the plug. The electrical socket must be easily accessible.

The Original Prusa PDU is equipped with a replaceable fuse located in the fuse holder at the connection connector, protecting the entire product. Before replacing the fuse, turn off the product, disconnect the power supply by pulling out the power cable from the socket, and then disconnect the power cable from the connector. Slide out the fuse holder using a flat screwdriver, remove the fuse, and insert a new one. Slide the fuse holder back in. Always ensure that the new fuse has the same value as indicated on the label (F10AH/250V). If the fuse repeatedly blows, contact service.



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Check prusa.io/xl-enclosure for assembly instructions and latest and translated versions of this manual (PDF download).

Tech support info: Knowledge base available at help.prusa3d.com
You can contact tech support via email at info@prusa3d.com or Live chat at www.prusa3d.com.

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Disclaimer

Failure to read the handbook may lead to personal injury, inferior results, or damage to the Original Prusa XL Enclosure and Original Prusa XL 3D printer. Always ensure that anyone who operates the 3D printer knows and understands the contents of the User Manual. We cannot control the conditions in which you assemble the Original Prusa XL Enclosure. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, injuries, damage, or expense arising out of, or in any way connected with, the assembly, handling, storage, use, or disposal of the product. The information in this handbook is provided without any warranty, expressed or implied, regarding its correctness. Unofficial modifications may lead to damage to your Original Prusa XL Enclosure and they are not covered by the warranty.

Product details

Title: Original Prusa XL Enclosure
Manufacturer: Prusa Research a.s., Partyzánská 188/7A, Prague, 170 00, Czech Republic
E-mail: info@prusa3d.com
EEE group: 3 (IT and/or telecommunication equipment)
IP Rating: IP20. | 5 VDC, 200 mA max. / 24 VDC, 500 mA max
Working humidity: 85 % or less, not meant to be used over 2000 meters altitude. | Recycling and disposal: follow your country's laws and regulations

Kit weight: 15.7 kg | Dimensions when installed on the printer: 500 mm (w) × 900 mm (h) × 720 mm (d)
The serial number is located on the back side panel.

Safety instructions

Please note that the safety instructions for your 3D printer apply here as well.

1. The device is for indoor use only. Do not expose the product to direct sunlight, rain, or snow. Always keep the Original Prusa XL Enclosure in a dry environment leave at least 5 cm around the XL Enclosure for ventilation.
2. Always place the Original Prusa XL 3D printer with the Original Prusa XL Enclosure in a stable place, where it cannot fall or tip over.
3. Do not reach inside the Original Prusa XL Enclosure while the printer is still in operation. An injury may be caused by its moving parts.
4. Prevent children from unsupervised access to the Original Prusa XL Enclosure even when the printer is not printing.
5. When printing materials such as ABS or similar, the heated plastic produces fumes that may leak through small outlets on the enclosure. Do not inhale these fumes – they can cause health issues. Set up the Original Prusa XL Enclosure in a well-ventilated place. Once you finish printing, open the window and then open the bellows to quickly ventilate the air.
6. Do not use liquids close to the Original Prusa XL Enclosure. This can cause electrical shocks and damage to the Original Prusa XL Enclosure.
7. Do not block the air outlets on the Original Prusa XL Enclosure. This can cause severe damage to the Original Prusa XL Enclosure and the 3D printer placed inside.
8. Do not install any additional heaters – there's a risk of damaging the electronics!

White LED Strip

LEDs are extremely sensitive to electrostatic discharge. When handling the PCB, be sure to touch only the sides of the board. Once the LEDs are installed, cover them with the bundled diffuser. Do not touch the LEDs when the power supply is plugged in.

Advanced filtration system

The filter lifespan is at least 600 hours of active printing depending on the material you are printing from (some materials produce more particles than others). The filter is a consumable item that is not covered by the warranty unless it arrives damaged. As soon as the filter starts to lose its efficiency, it must be replaced. Turn off the printer, unplug the power supply, and make sure the fan is not spinning. Then remove the old filter and replace it with a new one. Handle the filter with care, if the HEPA surface is damaged, the efficiency of the filter will decrease. Do not touch the used filter with bare hands and carefully place it in a plastic bag. Used filters cannot be recycled.

Introduction

Original Prusa XL Enclosure is compatible with the Original Prusa XL 3D printer. The Original Prusa XL Enclosure provides the following functions:

- **Safety:** Contains fumes and odors produced by certain filaments during printing – once the print finishes, open the window and then open the enclosure to quickly vent the air.
- **Silence:** Reduces the noise of a running 3D printer.
- **Stability:** Creates a stable printing environment with increased temperature, preventing failed prints caused by the draft. Increased temperature reduces the warping of printed materials. WARNING: With ambient temperatures over 25°C, the temperature inside the enclosure may be too high for printing PLA and the nozzle may become clogged. We recommend opening the enclosure when printing PLA at ambient temperatures over 25 °C.

Maintenance

To ensure a trouble-free operation of your enclosure, it is recommended to follow the simple maintenance instructions listed below. Remember to turn off the printer before you clean the enclosure. Turn off the printer and disconnect it from the power source before you carry out maintenance.

1. Make sure the printer and its surroundings are kept clean. Bits and pieces of filament can accumulate around and in the printer. Either remove the immediately or perform regular cleaning from time to time to prevent the filament from getting into the moving parts of the printer. You can use a vacuum cleaner to remove the debris.
2. The transparent panels of the enclosure should be cleaned using lukewarm water with mild soap. You can also use a slightly acidic, neutral or slightly alkaline detergent in combination with a soft clean sponge. Rinse well afterward with clean water and dry with a chamois leather or a moist cellulose sponge. Do not use abrasive or highly alkaline cleaners, acetone, benzene, leaded gasoline or carbon tetrachloride. Wipe the bellows with a damp cloth to remove dust.
3. When you're printing with an enclosure regularly, it is recommended to carry out maintenance more frequently than stated in the printer's handbook.

