

DWEII DW-101245_1

DWEII 25mmx50mm Polyimide Film Heater Plate Instruction Manual

Model: DW-101245_1 | Brand: DWEII

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the DWEII 25mmx50mm Polyimide Film Heater Plate. This product is a compact, self-adhesive heating element designed for various applications requiring precise and controlled heating. Please read this manual thoroughly before installation and operation.

2. SAFETY INFORMATION

Failure to follow these safety instructions may result in electric shock, fire, or personal injury.

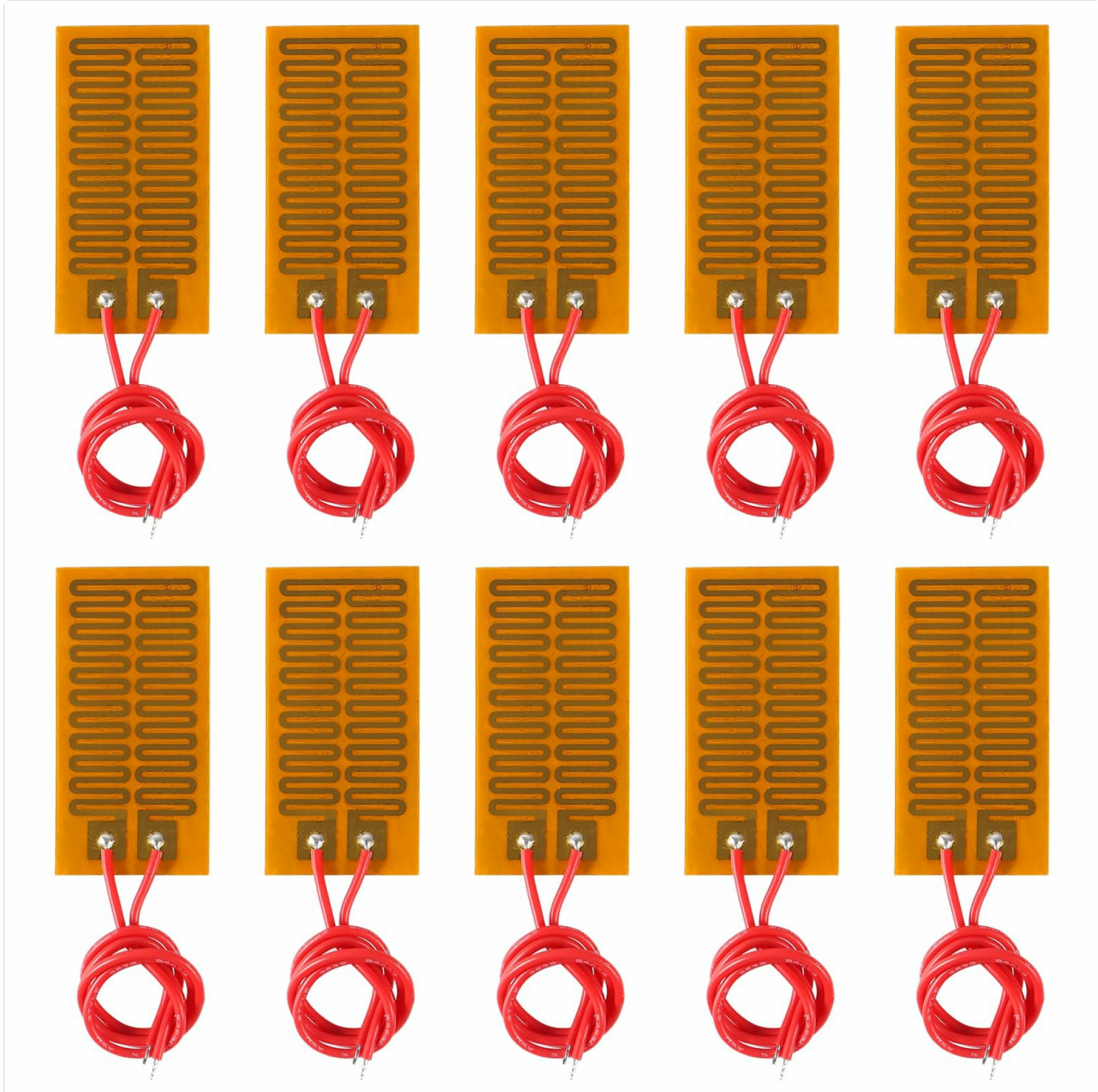
- Always use the heater plate with a DC 12V power source. Using incorrect voltage can damage the product and pose a safety risk.
- An external temperature controller is **mandatory** for safe operation. This heater plate does not have built-in temperature control and will continuously heat when powered.
- Do not immerse the heater plate or its connections in water or other liquids.
- Avoid direct contact with the heating surface when the device is powered, as it can reach temperatures up to 100°C.
- Ensure proper ventilation around the heated area to prevent heat buildup.
- Keep the product out of reach of children and pets.
- Inspect the heater plate and wires for any damage before each use. Do not use if damaged.

3. PACKAGE CONTENTS

- 10 x DWEII 25mmx50mm Polyimide Film Heater Plates

4. PRODUCT OVERVIEW

The DWEII Polyimide Film Heater Plate is a thin, flexible, and highly efficient heating element. It features a polyimide outer insulator and a thermos foil inner electric heating element, formed through high-temperature and high-pressure heat sealing. Its self-adhesive backing allows for easy application to various surfaces.



This image displays the DWEII polyimide film heater plate, highlighting its compact dimensions of 25mm by 50mm. The heater features two red lead wires for electrical connection.

Key Features:

- **Compact Size:** 25mm x 50mm for versatile applications.
- **Efficient Heating:** 7W power at DC 12V, reaching up to 100°C.
- **Self-Adhesive:** Equipped with a strong adhesive backing for easy and secure mounting.
- **Durable Material:** Polyimide construction offers excellent dielectric strength, thermal conductivity, and resistance stability.
- **Rapid Preheating:** Designed for quick heat-up times and long operational life.

5. SETUP

Follow these steps for proper installation of the heater plate:

1. **Prepare the Surface:** Ensure the surface where the heater plate will be applied is clean, dry, and free from dust, oil, or any other contaminants. A clean surface ensures optimal adhesion.
2. **Peel Adhesive Backing:** Carefully peel off the protective paper from the adhesive side of the heater plate. Avoid touching the adhesive surface to maintain its stickiness.



This image illustrates the process of preparing the heater for installation, showing a hand carefully peeling off the protective layer from the adhesive backing, revealing the sticky surface ready for application.

3. **Apply Heater Plate:** Position the heater plate accurately on the desired surface. Press firmly and evenly across the entire surface of the heater to ensure good contact and eliminate air bubbles.



This image provides a view of the reverse side of the heater plate, clearly showing the self-adhesive layer that allows for easy and secure attachment to various surfaces.

4. **Connect Electrical Wires:** Connect the two red lead wires of the heater plate to a DC 12V power supply. **It is critical to integrate an appropriate external temperature controller (not included) into this circuit.** The temperature controller will regulate the power to the heater, preventing overheating and maintaining the desired temperature.
5. **Verify Connections:** Double-check all electrical connections to ensure they are secure and correctly wired before applying power.

6. OPERATING INSTRUCTIONS

Once the DWEII Polyimide Film Heater Plate is properly installed and connected to a DC 12V power source via a temperature controller:

1. Activate the DC 12V power supply.
2. Set your desired temperature on the external temperature controller. The heater plate will begin to warm up according to the controller's settings.
3. Monitor the temperature of the heated surface to ensure it remains within safe and desired limits for your specific application.
4. To turn off the heating, either switch off the power supply or disable the temperature controller.

Remember: The heater plate itself does not regulate temperature. An external temperature controller is essential for safe and controlled operation.

7. MAINTENANCE

Proper maintenance ensures the longevity and performance of your heater plate:

- **Cleaning:** Keep the heater plate and its electrical connections clean and free from dust, dirt, or debris. Use a dry, soft cloth for cleaning. Do not use liquids.
- **Inspection:** Periodically inspect the lead wires for any signs of damage, fraying, or wear. Check the adhesive bond to ensure the heater plate remains securely attached to the surface.
- **Storage:** If not in use, store unused heater plates in their original packaging in a dry, cool environment, away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your DWEII Polyimide Film Heater Plate, refer to the following:

- **Heater not warming up:**
 - Verify that the DC 12V power supply is connected and functioning correctly.
 - Check if the external temperature controller is properly connected, powered on, and set to a temperature above the ambient temperature.

- Inspect all lead wire connections for looseness or damage. Ensure good electrical contact.
- **Inconsistent heating:**
 - Review the settings and functionality of your external temperature controller.
 - Ensure the heater plate has full and even contact with the surface it is adhered to. Air gaps can lead to uneven heating.
 - Verify the stability of your DC 12V power supply.
- **Overheating:**
 - Immediately disconnect power to the heater plate.
 - Overheating indicates a malfunction of the external temperature controller or improper use without a controller. The heater plate requires a functional temperature controller to prevent excessive temperatures.

9. SPECIFICATIONS

Model	DW-101245_1
Working Voltage	DC 12V
Power	7W
Maximum Heating Temperature	Approximately 100°C
Operating Temperature Range	-190°C to 205°C
Thickness	<0.2mm
Power Deviation	<5%
Lead Wire Tensile Strength	>5N
Adhesive Force	>40N/100mm
Material	Polyimide
Product Dimensions (L x W)	50mm x 25mm (1.96" x 0.98")
Color (Wires)	Red

10. WARRANTY AND SUPPORT

For product support, warranty inquiries, or technical assistance, please contact DWEll customer service through your purchase platform. Please retain your purchase receipt as proof of purchase for any warranty claims.