

Dioche Diocheg2uxq4p65t

Dioche 15KV High Voltage Flyback Transformer Inverter Pulse Generator Instruction Manual

Model: Diocheg2uxq4p65t

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Dioche 15KV High Voltage Flyback Transformer Inverter Pulse Generator. This module is designed for generating high voltage pulses, suitable for various scientific and electronic applications. Please read this manual thoroughly before operation.

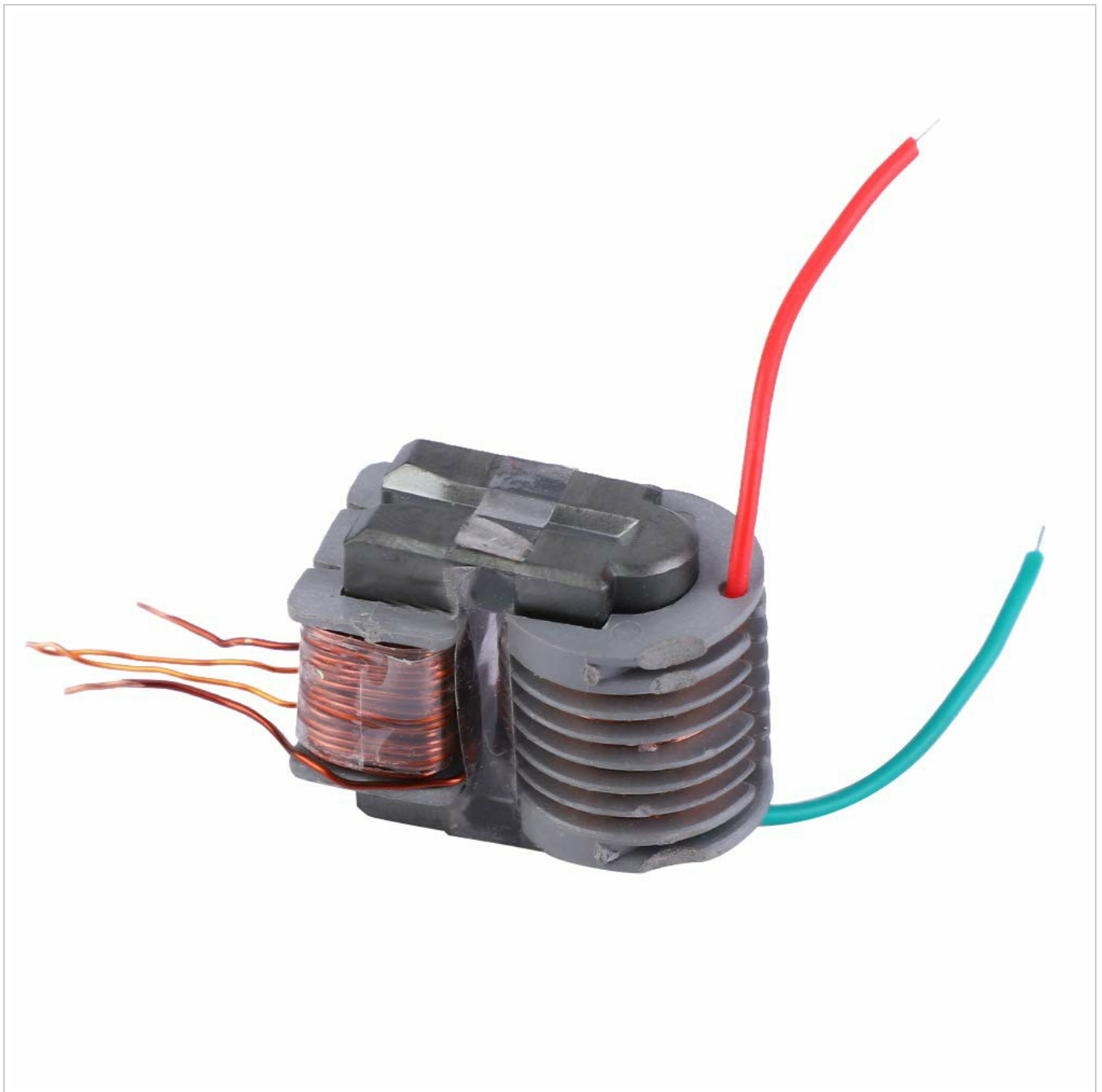


Image 1.1: Front view of the Dioche 15KV High Voltage Flyback Transformer Inverter Pulse Generator.

2. SAFETY WARNINGS

WARNING: This device generates high voltage. Improper use can result in severe injury or death. Always exercise extreme caution.

- Do not operate this module without proper insulation and safety precautions.
- When operating in open air, the module does not produce a crackling sound, but the temperature can become extremely high. It is capable of igniting paper, plastic, or even very thin wires. Keep flammable materials away.
- Ensure all connections are secure before applying power.
- Keep hands and other body parts away from high voltage output terminals during operation.
- Use appropriate protective equipment, such as insulated gloves and safety glasses.
- This product is not a toy. Keep out of reach of children.

WHEN IT OPERATE IN THE AIR, NO CRACKLING SOUND, BUT THE TEMPERATURE IS VERY HIGH, CAN EASILY IGNITE PAPER, PLASTIC, EVEN VERY FINE WIRE.

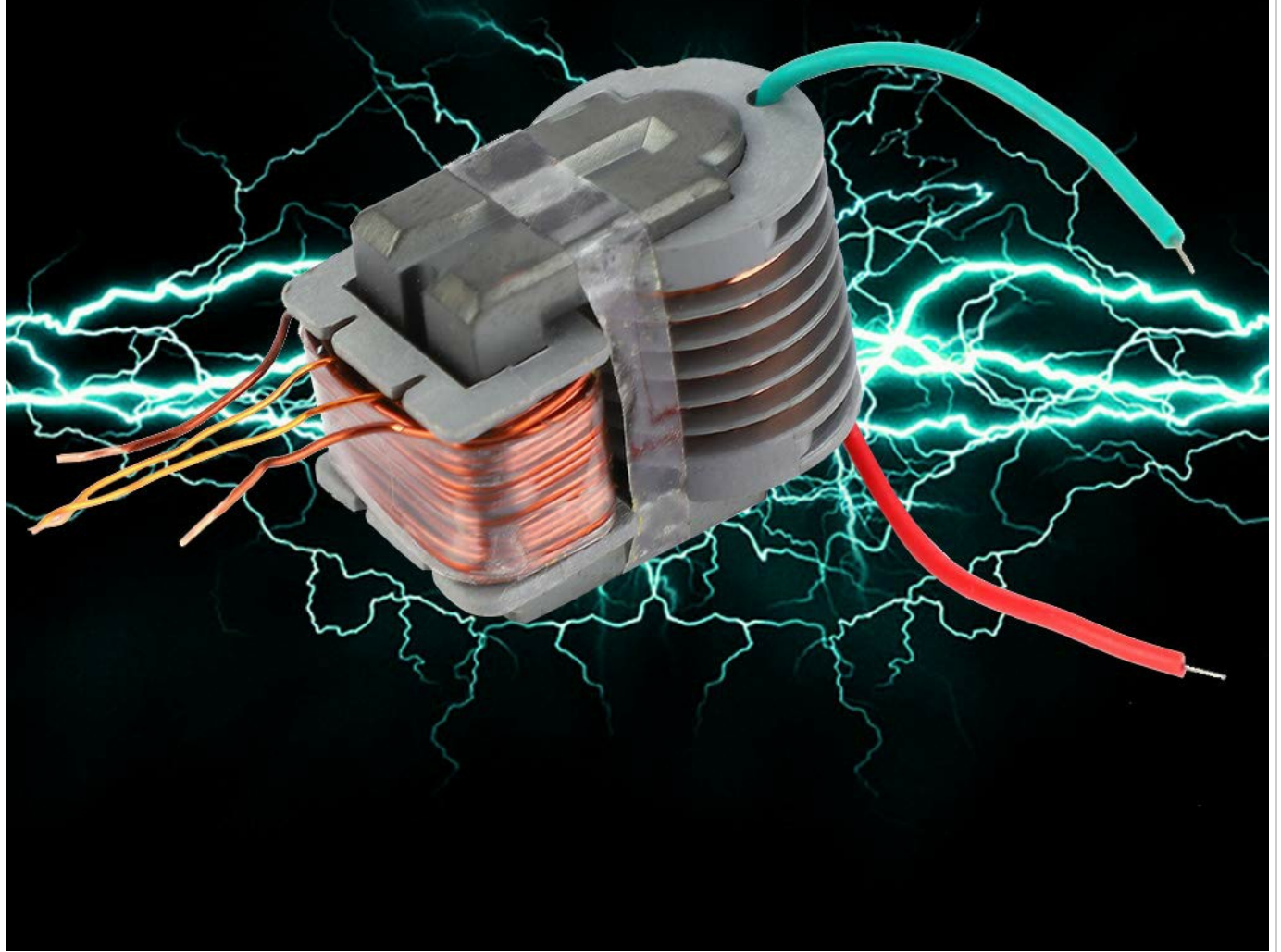


Image 2.1: The module generates high heat and can ignite materials when operating in open air.

3. SPECIFICATIONS

Parameter	Value
Input Voltage	3.7V - 4.2V
Input Current	$\leq 2A$
Output Voltage	$\leq 15KV$
Output Current	$\leq 0.4A$
High Voltage Ignition Distance	0.5 - 1 cm (0.2 - 0.4 in)
Dimensions (approx.)	25 x 20 x 15 mm (1 x 0.8 x 0.6 in)

4. SETUP

The Dioche 15KV High Voltage Flyback Transformer Inverter Pulse Generator is designed for straightforward integration into electronic circuits. Follow these steps for proper setup:

1. **Identify Connections:** The transformer's primary winding has two coils: a main winding and a feedback winding. The two copper wires, one thick and one fine, are the positive terminals. These correspond to the tail of the main winding and the head of the feedback winding, respectively.
2. **Power Supply Connection:** Connect the identified positive terminals to the positive terminals of your power supply (3.7V - 4.2V DC). Ensure the power supply can deliver at least 2A.
3. **Output Connections:** The high voltage output leads are typically thicker and insulated. Connect these to your desired load or electrodes, maintaining adequate insulation and spacing.
4. **Mounting:** Securely mount the module in a stable, non-conductive enclosure, ensuring proper ventilation to dissipate heat. Avoid mounting near flammable materials.

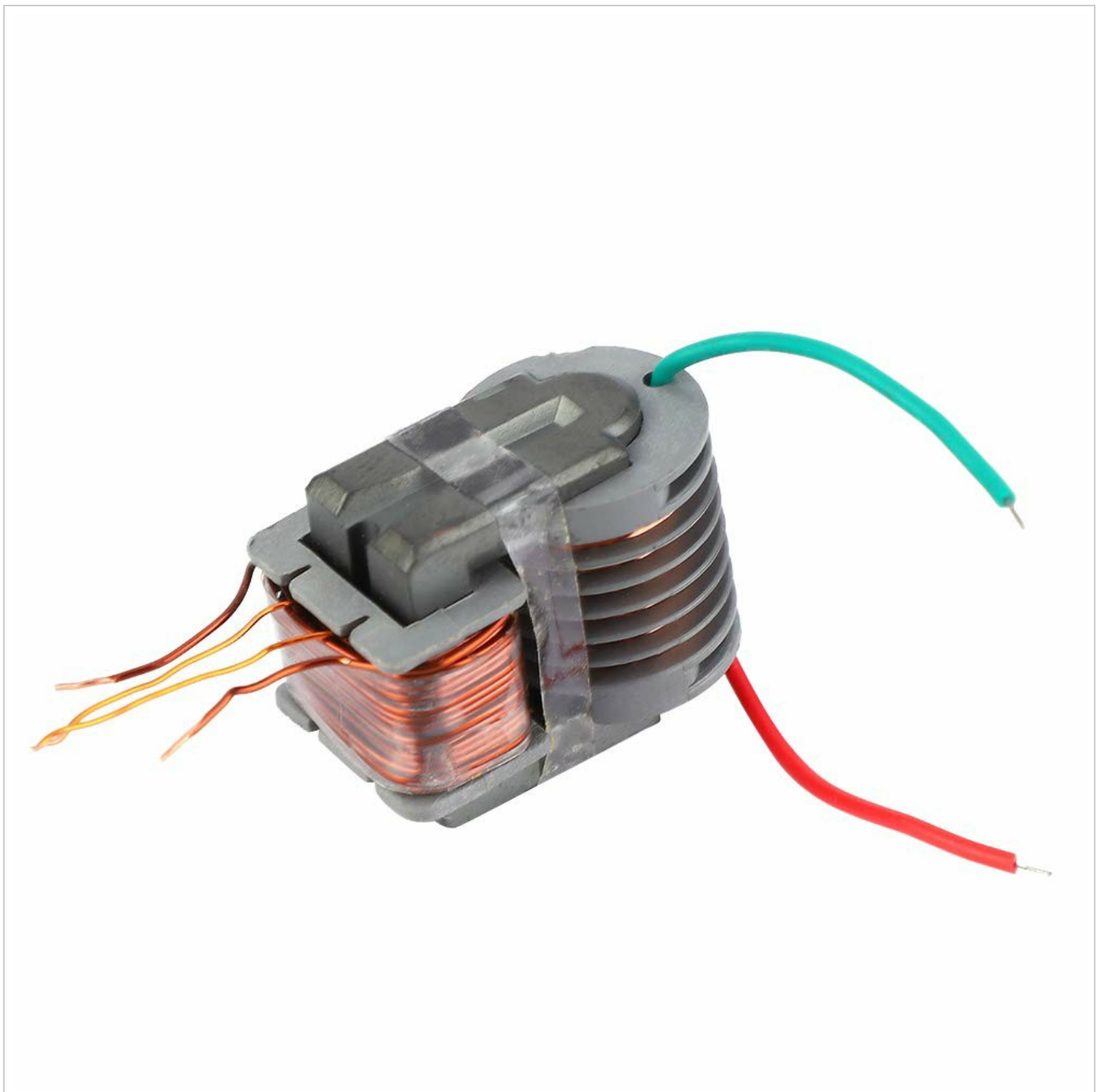


Image 4.1: Top-down view of the module, illustrating the various connection wires.

5. OPERATING INSTRUCTIONS

Once the module is correctly set up and all safety precautions are in place, you can proceed with operation:

- 1. Verify Connections:** Double-check all input and output connections to ensure they are secure and correctly polarized.
- 2. Apply Power:** Carefully apply the specified input voltage (3.7V - 4.2V DC) to the module.
- 3. Observe Output:** The module will generate high voltage pulses. The ignition distance for the high voltage arc is typically between 0.5 to 1 cm.
- 4. Monitor Temperature:** Continuously monitor the module's temperature during operation. If it becomes excessively hot, disconnect power immediately and allow it to cool.
- 5. Disconnection:** To power off, first disconnect the input power supply. Allow sufficient time for any residual charge to dissipate before handling the module or its output leads.

This module is suitable for applications such as boosting, spark generation, and scientific experiments. Its high frequency ensures efficient operation.

6. MAINTENANCE

The Dioche 15KV High Voltage Flyback Transformer Inverter Pulse Generator is designed for minimal maintenance.

- Cleaning:** Keep the module clean and free from dust and debris. Use a dry, soft cloth for cleaning. Do not use liquids or solvents.
- Inspection:** Periodically inspect the module for any signs of damage, such as cracked casing, frayed wires, or discolored components. If damage is found, discontinue use.
- Storage:** Store the module in a cool, dry place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your Dioche 15KV High Voltage Flyback Transformer Inverter Pulse Generator, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No high voltage output	Incorrect input voltage or current; loose connections; faulty power supply.	Verify input voltage (3.7V-4.2V) and ensure power supply can deliver $\geq 2A$. Check all wiring for secure connections. Test power supply independently.
Weak or inconsistent arc	Insufficient input power; improper electrode spacing; environmental factors.	Ensure power supply meets specifications. Adjust the distance between high voltage output terminals (0.5-1cm). Operate in a dry environment.
Module overheating rapidly	Excessive input voltage/current; poor ventilation; prolonged operation.	Verify input voltage is within range. Ensure adequate airflow around the module. Reduce continuous operating time.

If the problem persists after attempting these solutions, contact customer support or a qualified electronics technician.

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or visit the

official Dioche website.

Brand: Dioche

Model: Diocheg2uxq4p65t

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