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Fafeicy Fafeicymcpgd9ubyr

Instruction Manual for Super High Voltage Pulse Generator Module

Brand: Fafeicy
Model: Fafeicymcpgd9ubyr

1. Introduction

This manual provides essential information for the safe and effective use of the Fafeicy Super High Voltage Pulse Generator Module. This module is designed as a high voltage source for various applications, including student science experiments, electronic instruments, and negative ion generators.
The module operates based on the coil principle, producing high-voltage pulses with a compact size and high efficiency.

2. Safety Information

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

- **Never power on the module without a load under high voltage.** This can damage the module and pose a safety risk.
- Ensure the discharge distance of the high-voltage two-pole is properly adjusted **before** applying power. The recommended discharge distance is 1.5cm to 2cm. Do not exceed this range.
- Keep hands and other body parts clear of the high-voltage output terminals when the module is powered.
- Use appropriate insulation and protective gear when working with high voltage.
- Do not disassemble or modify the module.
- Keep out of reach of children.
- Operate in a dry environment, away from flammable materials.

3. Product Features

- Compact design with small volume and high efficiency.
- Generates high-voltage pulses based on the coil principle.
- Clearly defined input and output ends for easy connection.
- Input compatibility with various battery types: 3.7V lithium batteries, NiCd/NiMH battery packs, or 4V/6V lead-acid batteries.
- Capable of generating high voltage arcs when connected to a suitable power source.

4. Specifications

Parameter	Value
Item Type	High Voltage Pulse Generator
Module Model	MC- (Specific model: Fafeicymcpgd9ubyr)
Item Size (Length)	88.5mm / 3.48in
Item Size (Diameter)	26mm / 1.02in
Item Size (Section)	24mm / 0.94in
Input Parameters	3.7-7.4V / 4A
Input Wire Length	About 10cm / 3.94in (Red: Positive, Green: Negative)
Output Parameters	800-1000KV / 0.5A
Output Wire Length	About 16cm / 6.3in
Discharge Distance of High-Voltage Two-Pole	1.5cm - 2cm (Do not exceed)
Package Dimensions	3.94 x 1.57 x 1.57 inches
Package Weight	2.12 ounces
Manufacturer	Fafeicy



Figure 1: Dimensions of the High Voltage Pulse Generator Module, showing length (88.5mm / 3.48in) and diameter (26mm / 1.02in).

5. Package Contents

The package includes the following items:

- 1 x High Voltage Pulse Generator Module



Figure 2: The High Voltage Pulse Generator Module as packaged, showing its cylindrical shape and input/output wires.

6. Setup Instructions

1. **Identify Input and Output:** The module has two distinct ends. The input end consists of red and green wires. The red wire is the positive (+) input, and the green wire is the negative (-) input. The output end consists of two high voltage wires, typically of the same color (e.g., red).
2. **Connect Power Source:** Connect the input wires to a suitable DC power source. Compatible power sources include 3.7V lithium batteries, NiCd/NiMH battery packs, or 4V/6V lead-acid batteries. Ensure the polarity is correct (red to positive, green to negative). The input current should be approximately 4A.
3. **Adjust Discharge Distance:** Before applying power, carefully adjust the distance between the two high-voltage output wires. The optimal discharge distance for arc generation is between 1.5cm and 2cm. **Do not exceed 2cm.**
4. **Secure Connections:** Ensure all wire connections are secure and properly insulated to prevent accidental contact or short circuits.



Figure 3: The module shown in a typical application environment, highlighting its compact form factor suitable for integration into various projects.

7. Operating Instructions

1. **Apply Power:** Once the setup is complete and all safety precautions are observed, apply power to the input terminals.
2. **Observe Arc:** A high voltage arc should be generated between the two output wires if the discharge distance is set correctly and sufficient power is supplied.
3. **Input Voltage and Current Impact:** Be aware that the input voltage and current directly affect the output voltage and the maximum arc distance. Using a power source within the specified input parameters (3.7-7.4V / 4A) is crucial for optimal performance.
4. **Continuous Operation:** Avoid prolonged continuous operation without adequate cooling, as this may lead to overheating.

Important Note: The arc distance of the output end is proportional to the voltage and capacity of the battery used. Experiment with different compatible power sources to achieve desired arc characteristics within safe limits.

8. Maintenance

The High Voltage Pulse Generator Module is designed for durability and requires minimal maintenance. Follow these guidelines to ensure its longevity:

- **Keep Clean:** Regularly wipe the module with a dry, soft cloth to remove dust and debris. Do not use liquids or abrasive cleaners.
- **Storage:** Store the module in a cool, dry place away from direct sunlight, moisture, and extreme temperatures.
- **Handle with Care:** Avoid dropping or subjecting the module to strong impacts, as this can damage internal components.
- **Inspect Wires:** Periodically check the input and output wires for any signs of wear, fraying, or damage. Replace if necessary.

9. Troubleshooting

If you encounter issues with your High Voltage Pulse Generator Module, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No arc generated	◦ Incorrect input voltage or insufficient current. ◦ Incorrect input wire polarity. ◦ Discharge distance too wide or too narrow. ◦ Module powered on without load. ◦ Damaged wires or connections.	◦ Ensure input voltage is within 3.7-7.4V and current is sufficient (approx. 4A). ◦ Verify red wire is positive, green is negative. ◦ Adjust discharge distance to 1.5cm - 2cm. ◦ Always ensure a load (proper discharge distance) is set before powering on. ◦ Check all wires for damage and ensure secure connections.
Weak or inconsistent arc	◦ Low battery voltage or capacity. ◦ Input current is too low.	◦ Use a fully charged battery or a power supply with adequate capacity. ◦ Ensure the power source can provide the required 4A current.
Module overheating	◦ Prolonged continuous operation. ◦ Operating in a confined space with poor ventilation.	◦ Allow the module to cool down between uses. ◦ Ensure adequate airflow around the module during operation.

10. Warranty and Support

For specific warranty details and support inquiries regarding your Fafeicy High Voltage Pulse Generator Module, please refer to the purchase documentation or contact the seller directly.
You can also visit the official Fafeicy store for more information and product updates:

Visit the Fafeicy Store on Amazon

11. Product Videos

No official product videos from the seller are available for this item at this time.

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