

- INPUT : 3.7 TO 6VDC @ 0.5A
- OUTPUT : 15KV NOMINAL.

DANGER !!!

LETHAL VOLTAGES

Product Overview

This device operates with an input voltage of **3.7 V to 6 V**. At the output terminals, it generates a **high-temperature purple electric arc** approximately **0.5 cm in length**.

This arc is capable of instantly igniting materials such as paper or cigarettes. The high-voltage output can also discharge to nearby conductive objects, producing a distinct discharge sound and demonstrating stable, reliable operation without performance flaws.

Power Supply Requirements

The product can be powered by a **single 3.7 V lithium battery** or **two cells in series**. Suitable power sources include:

- **18650 lithium batteries**
- **Recycled mobile phone batteries**
  (protection circuit removal recommended; capacity ≥ 2000 mAh)
- **NiCd or NiMH rechargeable batteries**
- **4 V or 6 V lead-acid batteries**

For optimal performance, a **6 V power supply** is recommended.

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Module Usage Notes

1. **Avoid No-Load Operation:**
   Do not operate the high-voltage module without a connected load. Before powering on, ensure that the distance between the high-voltage output terminals is properly adjusted. The achievable arc length is directly proportional to the battery's voltage and capacity.

2. **Arc Distance Testing:**
   When testing the arc distance, begin with a short gap and gradually increase it. Exceeding the maximum permissible arcing distance while the module is powered can prevent proper energy discharge, which may lead to module damage.

3. **Operating Duration:**
   The module generates significant power and internal heat; therefore, it is **not suitable for continuous long-term operation**. Allow adequate cooling periods between uses to prevent overheating.

4. **Battery Capacity Verification:**
   To determine whether the power source can support maximum output, measure the battery voltage during arcing. If the voltage remains close to **6 V**, the battery is capable of delivering full performance.

5. **Battery Recommendations:**
   When using small-capacity lithium batteries in series (e.g., 7.2 V), voltage may drop significantly during operation—potentially to around **4 V**. Lower-capacity batteries experience greater voltage sag. It is recommended to use lithium batteries with a capacity of **at least 2000 mAh**, preferably **4000 mAh or higher**, for optimal results.