

# TP3012 Series

## Pulse High Voltage Power Supply

Compact Model, Output Pulses With Five Different Pulse Widths



TP3012 power supply is a small, functional, stable high voltage pulse power supply, which is used to charge and discharge capacitors. This high voltage pulse power supply not only provides the high voltage required by users, but also can realize pulse output with 10 different frequencies, which can well meet the needs of users.

- It Can Output 10 Pulses With Different Frequencies And Pulse Widths
- The Output Pulse Voltage Amplitude Is 3kV To 6kV
- The Amplitude Of Output Pulse Voltage is Adjustable
- + 24V DC Input
- Pulse Rising Edge Time 250ns
- Pulse Falling Edge Time 250ns

### Typical Application:

External lithotripter; Withstand voltage test; Pulsed electric field; DBD Dielectric Barrier Discharge; Capacitor charging and discharging.

### Specifications:

**Input Voltage:** 24VDC  $\pm$  10%.

**Output Pulse Voltage:** 1kV to 6kV, adjustable.

**Pulse Width:** 1-5  $\mu$ s.

**Instantaneous Maximum Charging Current:** 50A.

**Instantaneous Maximum Power:** 300kW.

**Pulse Rise Time:** 250ns.

**Pulse Fall Time:** 250ns.

**Frequency:** Up to 5kHz.

**Pulse Control Mode:**

TTL Trigger Mode, Trigger Level 5V, BNC Interface.

**Pulse Voltage Accuracy:** < 1%.

**Voltage Control:**

Local control: The power supply comes with a multi-turn potentiometer, which can set the output voltage between 0 and the highest voltage.

**External control:**

The external 0 to 10V control signal can adjust the output from 0 to the highest voltage.

**Connectors:**

High voltage output connector: High voltage power supply outputs high voltage through SHV connector, and the total length of high voltage cable with SHV connector is 1m.

**Environmental:**

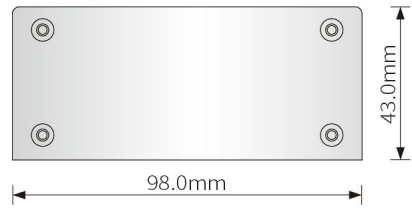
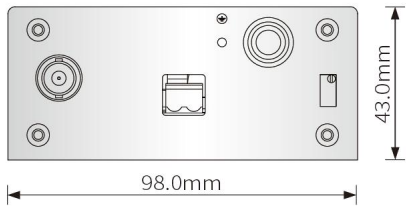
operational: 0 °C to + 50 °C.

Storage: -20 °C to + 80 °C.

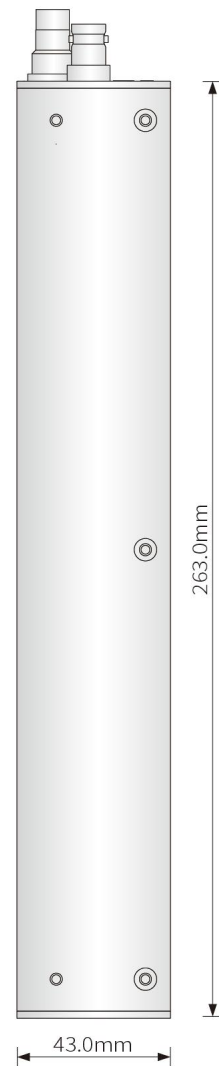
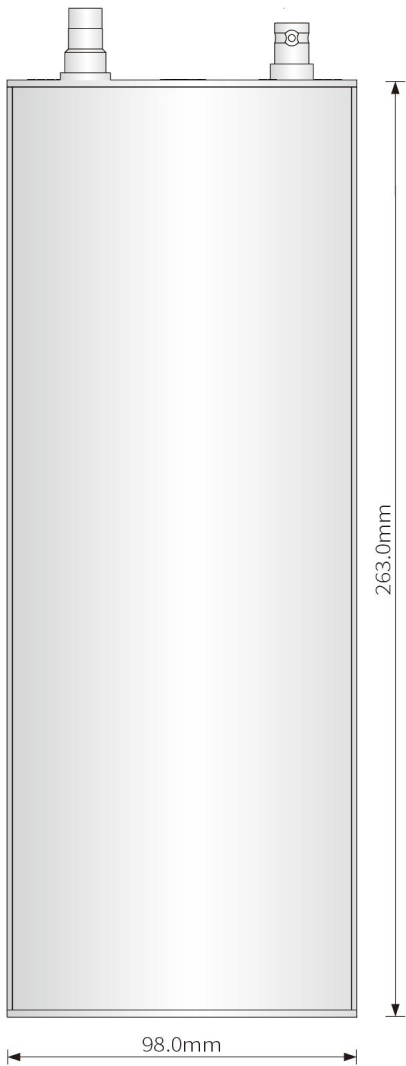
**Overall Dimensions:** 98mm wide, 43mm high and 263mm deep.

**Weight:** About 1.8 kg.

# Overall Dimensions: mm



Front View & Rear View



Top view & Side View