

TP3011 Series

Pulse High Voltage Power Supply



**The Maximum Output Voltage is 6kV,
Compact Model, Fixed Pulse Width, Square Wave**

Teslaman TP3011 Series is a compact high-performance high-voltage pulse power supply, which can output standard square wave and fixed pulse voltage value, and its maximum output voltage can reach 6kV. The standard model of this pulsed power supply controls the voltage output through an external optical trigger signal, with trigger delay less than 300 nanoseconds. In addition, this power supply can be customized, the trigger mode can be changed, and continuous pulses or adjustable pulse width.

- Fixed Output Pulse Voltage Up to 1kV-6kV Optional
- Fixed Pulse Width is Optional From 1 μ s to 100 μ s
- The Rising Time Less Than 200ns
- The Falling Time Less Than 200ns
- Ultra-Small Outline Size
- Maximum Instantaneous Pulse Power 2.4 MW
- The Maximum Pulse Power Can Reach 60kw
- Trigger Delay Less Than 300ns
- OEM Customization Available

Typical Application:

Plasma injection; Withstand voltage test; Pulsed electric field; DBD dielectric barrier discharge, etc.

Specifications:

Input: DC24V \pm 10%.

Output pulse voltage: 1kV-6kV fixed voltage available and can be fine-tuned.

Pulse Width: 1 μ s-100 μ s fixed pulse width.

Instantaneous Maximum Pulse Current: > 400A.

Pulse Current: > 150A.

Instantaneous Pulse Power: > 2.4 MW.

Pulse Power: > 60kW.

Pulse Rise Time: < 200ns.

Pulse Fall Time: < 200ns.

Output Frequency: Single pulse (multi-pulse customizable)

Pulse Control Mode:

External trigger mode, trigger level is 5V, light trigger or level trigger is optional.

Pulse Voltage Fluctuation: < 2% under rated output conditions.

Connectors:

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

Environmental:

Operational: 0 $^{\circ}$ C to + 45 $^{\circ}$ C.

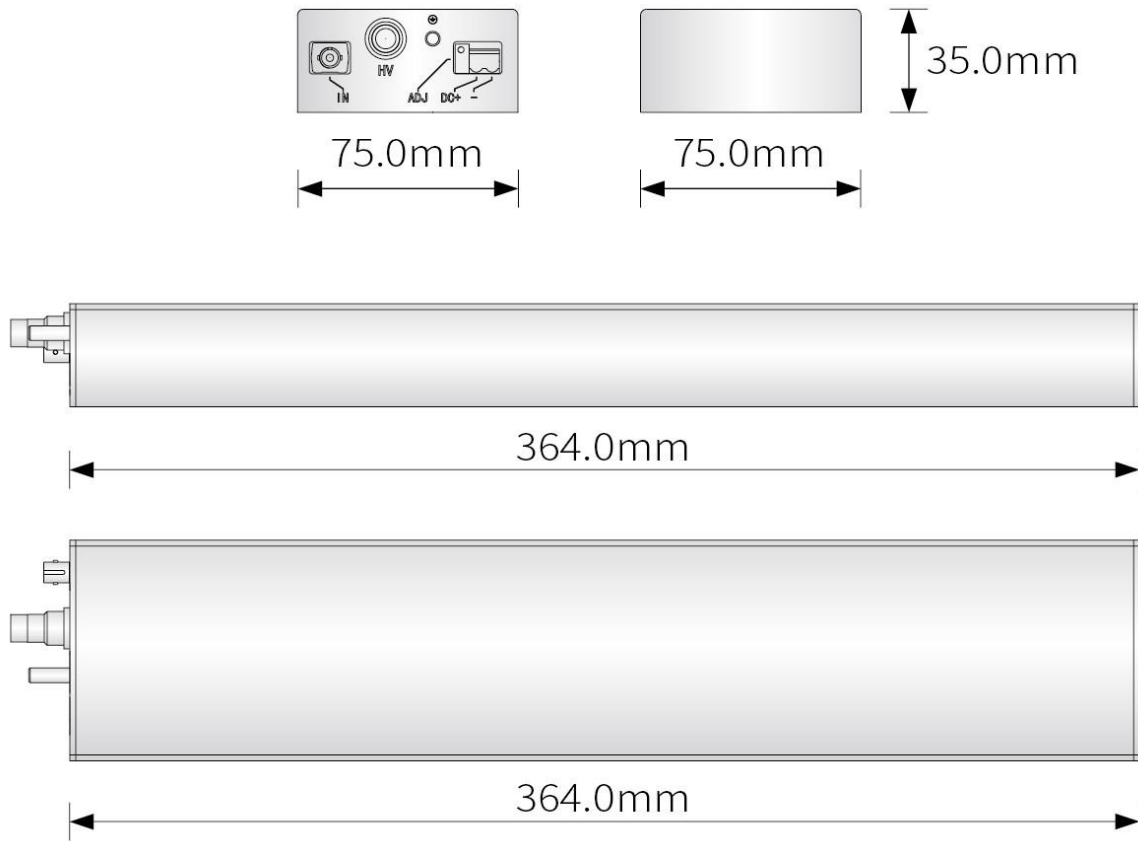
Storage: -20 $^{\circ}$ C to + 80C.

Overall Dimensions: 75mm wide, 35mm high and 364mm deep.

Weight: About 1.5 kg.

Optical Fiber Interface: Pulse on and pulse off can be triggered by external optical signals.

Overall Dimensions: mm



Debug Instance Waveform:

