



High Voltage Power Supply

User manual

Model No. : TP3011

Version: V A/3

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TP3011 Series Pulse high voltage power supply

The maximum output voltage is 6kV, the volume is small, and it can output pulses and square waves with five different pulse widths



- ◆ Output pulse voltage up to 1kv-6kV optional
- ◆ Output pulse width is optional from 3 μ s to 50 μ s
- ◆ The rising time is less than 200ns
- ◆ The falling time is less than 200ns
- ◆ Ultra-small outline size
- ◆ Maximum instantaneous pulse power 2.4 MW
- ◆ The maximum pulse power can reach 60kW
- ◆ Trigger delay is less than 300ns
- ◆ OEM customization available

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.

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 is optional and can be fine-tuned.

Pulse width: 3 μ s-50 μ s fixed width optional

Instantaneous maximum pulse current: $>$ 400A.

Pulse current: $>$ 10A.

Instantaneous pulse power: $>$ 2.4 MW.

Pulse power: $>$ 60kW.

Pulse rise time: $<$ 200ns.

Pulse fall time: $<$ 200ns.

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.



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