

TC3140 series

Modular pulse high-voltage power supply

10kV~20kV fixed output, 100Hz, 1W, small volume



Teslaman TC3140 series pulsed high-voltage power supply is a small-volume power supply that can output high voltage when it is powered on, and the voltage is not adjustable. According to the load situation, the output up to 10kV with load, 20kV output no-load.

- The maximum output no-load voltage is 20kV, which is not adjustable
- Maximum output with load voltage 10kV, non-adjustable
- Output frequency 100Hz
- Maximum output power 1W
- Power on is to output high voltage.
- Input 12VDC
- Size 60mm*33mm*93mm

Typical applications:

Pulsed electrostatic field; high-pressure sterilization (matching load, Escherichia sterilization rate can reach 95%).

Specifications:

Input:DC 12V.

Output:

According to the load situation, the maximum voltage is 20kV at no load and 10kV at full load, which is not adjustable.

Output mode:

After the power is turned on, the high voltage is directly output.

The output current is 3.5A adjustable and the voltage 5V adjustable.

Ambient temperature:

Working: 0°C to +50°C. Storage time: -40°C to +85°C.

Temperature coefficient:Voltage and current are better than 100ppm/°C.

Stability:It is less than 0.1% every 8 hours after warm-up 0.5 hours.

External dimensions:60mm wide, 33mm high and 93mm deep.

Output cable:The high-voltage cable is 2.5 meters long and cannot be plugged or unplugged.

TC3140 series pulsed high voltage power supply model selection table:

Output rating		Power supply model
Voltage kV	Frequency Hz	
20	100	TC3140P25-50

J1: High-voltage output side, no need to connect

Pin	Signal	Pin	Signal
1	Driving signal	3	Empty
2	Empty	4	Ground

J2:12VDC input side, no need to connect

Pin	Signal	Pin	Signal
1	For factory commissioning	3	For factory commissioning
2	For factory commissioning	4	For factory commissioning

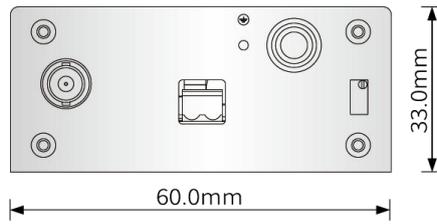
Power input J3: red and black twisted wire

Port	Function	Port	Function
Red Wire	+12V	Black Wire	-12V

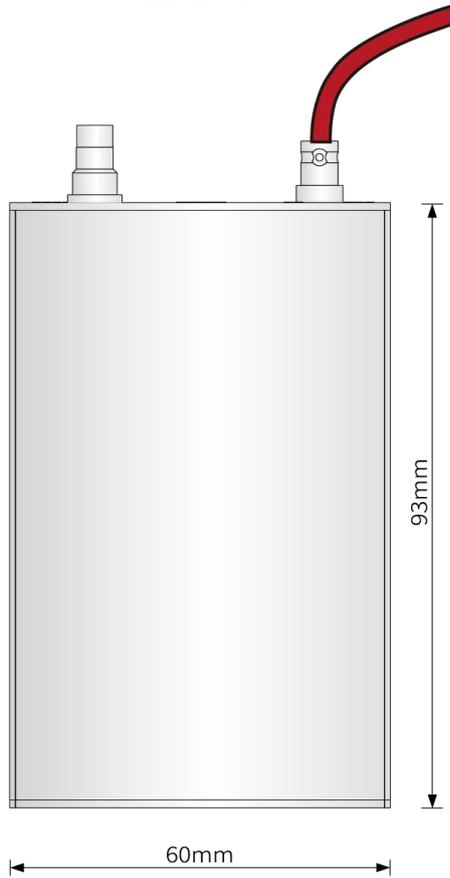
Ground Wire J4: Yellow Green Line

Port	Function		
Ground wire	Ground wire		

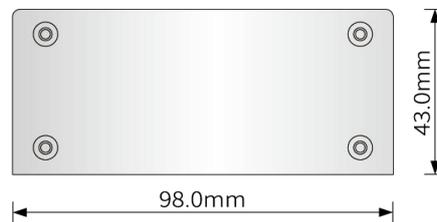
External Dimensions: mm



Front View



Top view



Rear view