osi1305 Series

20 kV, 1 W, 100 Hz, spike pulses



Product introduction

The osi1305 series is a compact high-voltage pulse power supply. High voltage is output as soon as power is applied; the voltage is not adjustable. Depending on the load, output ranges from 10 kV under load to 20 kV at no load.

Product features

- Maximum no-load output voltage 20 kV, not adjustable
- Maximum loaded output voltage 10 kV, not adjustable
- High voltage output immediately after power-on
- Dimensions 60 mm × 33 mm × 93 mm
- Output frequency 100 Hz
- Maximum output power 1 W
- 12 VDC input

Specifications

Parameter	Specification
Input	12 VDC.
Output	Depending on the load: maximum 20 kV at no load; maximum 10 kV at full load. Not adjustable.
Output mode	High voltage output immediately after power-on. Output current adjustable to 3.5 A; voltage adjustable to 5 V.
Ambient temperature	Operating: 0°C to +50°C. Storage: −40°C to +85°C.
Temperature coefficient	Voltage and current: better than 100 ppm/°C.
Stability	Less than 0.1% per 8 hours after a 0.5-hour warm-up.
Dimensions	60 mm wide, 33 mm high, 93 mm deep.
High-voltage cable	2.5 m long, non-detachable.

Model selection

Output voltage (kV)	Frequency (Hz)	Model
20	100	osi1305P25-50

High-voltage output side — no connection required

Pin	Signal
1	Drive signal
2	/
3	/
4	Ground

12 VDC input side — no connection required

Pin	Signal
1	Factory commissioning only
2	Factory commissioning only
3	Factory commissioning only
4	Factory commissioning only

Power input: red/black wires

Lead	Function
Red	+12 V
Black	−12 V

Earth: yellow/green wire

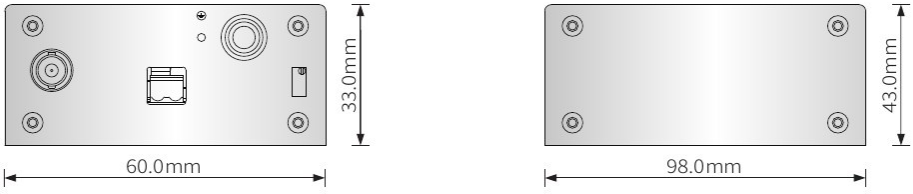
Terminal	Function
Earth lead	Earth

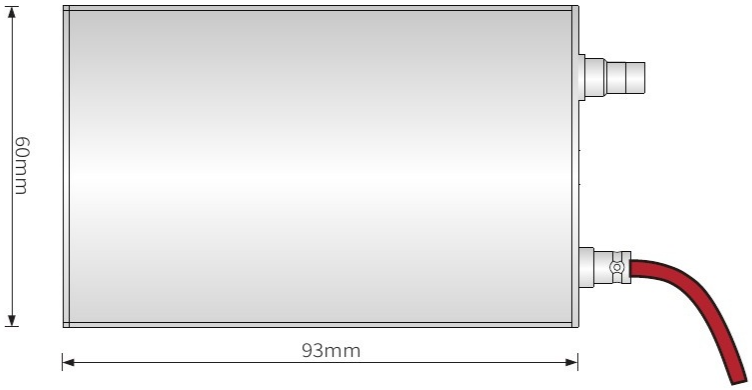
Typical applications

Pulsed electrostatic fields; high-voltage sterilization (with a matched load, E. coli sterilization rate can reach 95%).

Outline dimensions

Dimensions in mm.


33.0mm
60.0mm
43.0mm
98.0mm


60mm
93mm