osi1301 Series

±3 kV;50 A;RT≤100 ns;square-wave pulses;for NanoKnife applications



Product introduction

The OSIMAI osi1301 supply is an experimental pulsed-HV supply for NanoKnife applications.It provides user-required HV and adjustable voltage amplitude,pulse width,frequency,interphase delay,pulse trains and pulses per train,using optical-fiber communication.This supply is provided for early validation trials;it does not meet all medical certification and regulatory requirements.Animal tests have been performed with some customers and satisfactory experimental data obtained.OSIMAI has more than10 years of NanoKnife experience,including custom supply development,production and regulatory compliance.Custom equipment has been supplied to several domestic medical-device companies and passed type testing.Contact us for special requirements.

Product features

- Adjustable pulse voltage,width,frequency and interphase delay
- Pulse rise/fall times<200 ns
- Adjustable pulse trains and pulses per train
- Pulse voltage amplitude±3 kV
- Other parameters customizable
- Customizable for regulatory/medical certification requirements

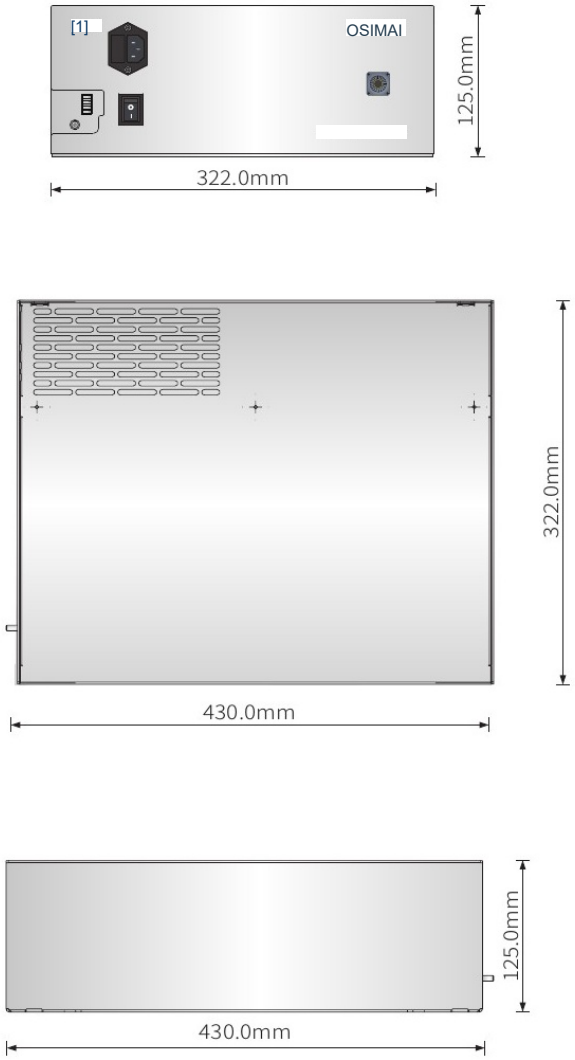
Specifications

Parameter	Specification
Input voltage	220 VAC ±10%.
Output pulse voltage	Maximum±3 kV,adjustable;polarity not selectable.
Average output power	<500 W.
Pulse width	1–100 μs.
Pulse frequency	Basic frequency1–5 kHz,adjustable.
Pulse rise/fall time	<200 ns.
Interphase delay	1–10 μs,adjustable.
Pulses per train	1–99,adjustable.
Pulse control	External TTL triggering;internal optical isolation;optical-fiber communication.
Pulse voltage accuracy	<2%.
Pulse adjustment	Host computer adjusts output voltage,pulse width,frequency,interphase delay and pulses per train.
Protection	Overvoltage,overcurrent,short-circuit and overtemperature protection.
HV cable/connectors	Dual-core HV output connector;HV pulsed output through a dual-core connector.Total HV cable length1 m.Power input connector:standard power terminal block.Pulse-trigger connector:BNC TTL trigger input.Optical communication connector:fiber jumper HFBR4532Z.
Ambient temperature	Operating: 0°C to +50°C. Storage: −20°C to +80°C.
Dimensions	Width322 mm,height125 mm,depth430 mm.
Weight	Approximately25 kg.

Typical applications

NanoKnife;irreversible electroporation;cell fusion;animal experiments.

Outline dimensions



[1] osi1301