osi1304 Series

6 kV, 50 A, 1–5 μs, 1 Hz, RT ≤250 ns, square-wave pulses, for extracorporeal lithotripsy



Product introduction

The osi1304 is a compact, fully featured high-voltage pulse power supply with stable performance, used to charge and discharge capacitors. It provides the high voltage required by users and pulse output at ten different frequencies to meet user requirements.

Product features

- Pulse output with ten different frequency and pulse-width settings
- Output pulse voltage amplitude 1–6 kV
- Adjustable output pulse voltage amplitude
- +24 VDC input
- Pulse rise time 250 ns
- Pulse fall time 250 ns

Specifications

Parameter	Specification
Input voltage	24 VDC ±10%.
Output pulse voltage	1–6 kV, adjustable.
Pulse width	1–5 μs.
Maximum instantaneous charging current	50 A.
Maximum instantaneous power	300 kW.
Pulse rise time	250 ns.
Pulse fall time	250 ns.
Frequency	Up to 5 kHz.
Pulse control	TTL trigger mode, 5 V trigger level, BNC interface.
Pulse voltage accuracy	<1%.
Voltage control	Internal: the built-in multi-turn potentiometer sets output voltage from zero to maximum. External analog control: an external 0–10 V control signal adjusts output from zero to maximum voltage.
High-voltage cable	High voltage is output through an SHV connector; total cable length with SHV connector is 1 m.
Ambient temperature	Operating: 0°C to +50°C. Storage: −20°C to +80°C.
Dimensions	98 mm wide, 43 mm high, 263 mm deep.
Weight	Approximately 1.8 kg.

Input/output control terminals

Terminal	Signal
DC+	+24 V input
−	+24 V ground
ADJ	Voltage adjustment
IN	TTL trigger
HV	High-voltage output
/	/

Output waveform

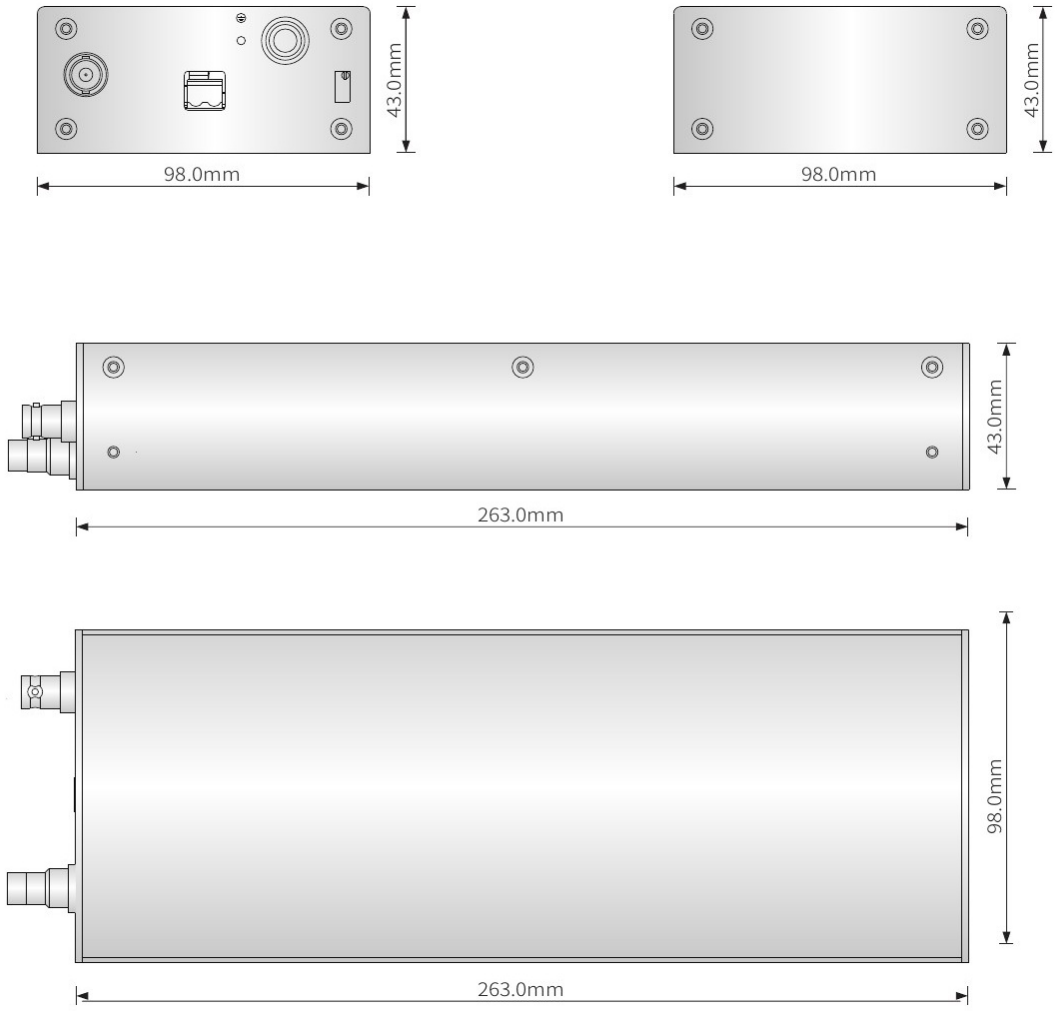


Typical applications

Extracorporeal lithotripters; dielectric withstand testing; pulsed electric fields; dielectric barrier discharge (DBD); capacitor charging and discharging.

Outline dimensions

Dimensions in mm.


43.0mm
98.0mm
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263.0mm
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