osi1308 Series

75 kV, 30 mA, 10–50 μs, 10–30 Hz, square-wave pulses



Product introduction

The osi1308 is a high-voltage pulse power supply with pulse output voltage up to 75 kV. Output pulse voltage, frequency and pulse width are continuously adjustable. Overvoltage and overcurrent protection provide stable performance to meet user requirements.

Product features

- Continuously adjustable pulse output voltage 0–75 kV
- Continuously adjustable pulse output frequency 10–30 Hz
- Continuously adjustable pulse width 10–50 ms; extension to DC customizable
- Maximum pulse output power 2250 W to DC
- Rise time 1 ms
- Host-computer control supported
- Voltage, frequency and pulse-width display
- Overvoltage and overcurrent protection

Specifications

Parameter	Specification
Input	220 VAC, 50 Hz.
Output	0–75 kV, continuously adjustable.
Maximum pulse output current	30 mA.
Output frequency	1–30 Hz, continuously adjustable.
Output pulse width	10 ms–DC, continuously adjustable.
Maximum pulse output power	2250 W.
Stability	0.05% per 8 hours after a 0.5-hour warm-up.
Temperature coefficient	Voltage and current: better than 100 ppm/°C.
Ripple voltage	Better than 1% RMS at rated output; 0.1% RMS optional.
Output adjustment and display	Digital front-panel meters display pulse output voltage, frequency and pulse width; values are adjusted using front-panel knobs.
Voltage control	Front-panel adjustment: knob sets output voltage from 0 V to maximum.
Voltage regulation	Load: better than 0.01%, no load to rated load. Line: ±0.01% for ±10% input voltage change.
Frequency control	Front-panel adjustment: knob sets output frequency from 1 to maximum frequency.
Pulse-width control	Front-panel adjustment: knob sets output pulse width from 10 to maximum pulse width.
Ambient temperature	Operating: −10°C to +50°C. Storage: −20°C to +80°C.
Dimensions	482 mm wide, 133.5 mm high, 500 mm deep.
High-voltage cable	One standard 1 m cable connects the supply and load; cable length optional.

Output waveform

输出波形

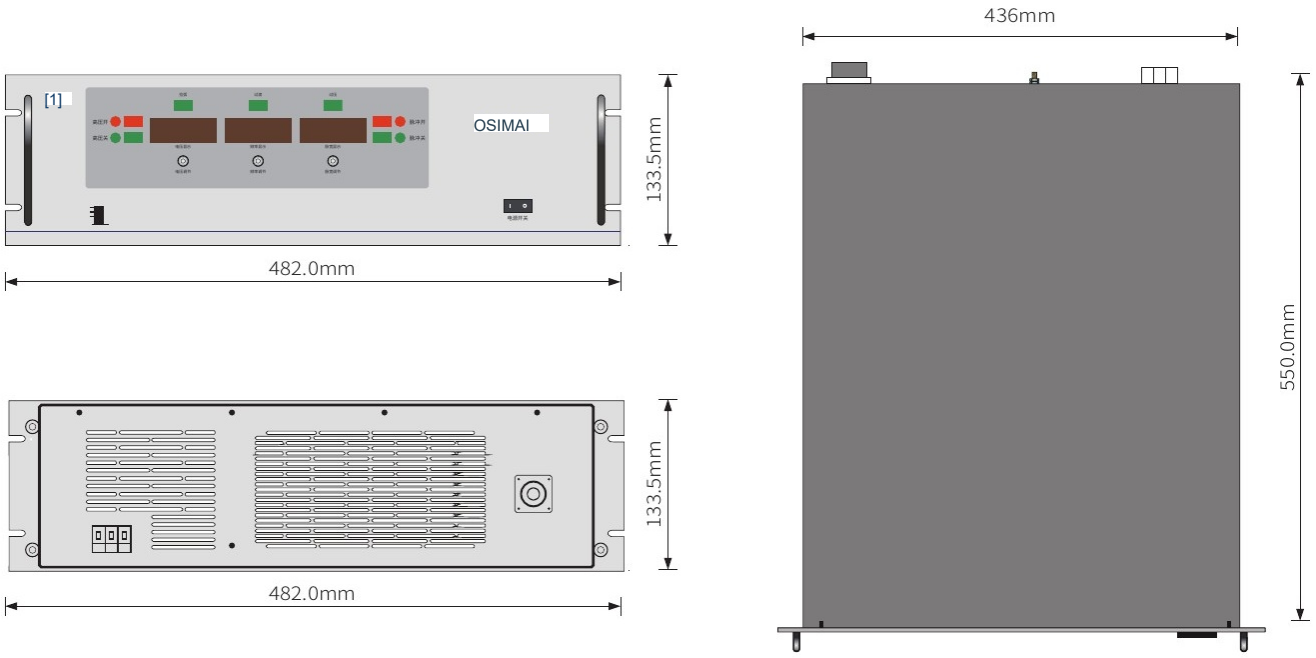


Typical applications

Cold-cathode X-ray source power supplies; dielectric barrier discharge.

Outline dimensions

Dimensions in mm.



[1] osi1308