osi1307 Series

40 kV, 25 mA, 8–50 μs, 1 Hz–1 kHz, RT ≥15 μs, spike pulses



Product introduction

The osi1307 series is a high-performance 19-inch standard rack-mounted high-voltage pulse power supply using digital control to meet various customer control settings. Overvoltage and overcurrent protection help ensure fault-free operation.

Product features

- Output voltage 0–40 kV
- Output current 25 mA
- Output frequency 1 Hz–1 kHz
- Maximum output power 1 kW
- Voltage and frequency display
- Overvoltage and overcurrent protection
- Remote control through RS-485
- Customization available to user requirements

Specifications

Parameter	Specification
Input	220 VAC ±10%, 50/60 Hz.
Output	Selectable maximum output voltage from 1 kV to 40 kV; continuously adjustable from zero to maximum. Each model provides positive or negative output.
Maximum output current	25 mA.
Output frequency	1 Hz–1 kHz, continuously adjustable; higher frequency optional.
Rise time	Greater than 15 μs ±10%, tested with a resistive load.
Output pulse width	8–50 μs ±10%.
Maximum output power	1 kW.
Time drift accuracy	0.01% per 8 hours after 30 minutes.
Output adjustment and display	Pulse output voltage and frequency are displayed on the front panel; values are adjusted using front-panel knobs.
Voltage control	Front-panel knob sets output voltage from zero to maximum pulse voltage.
Frequency control	Front-panel knob sets output frequency from 1 to maximum frequency.
Ambient temperature	Operating: −10°C to +50°C. Storage: −20°C to +80°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; higher stability optional.
Dimensions	482 mm wide, 178 mm high, 550 mm deep.
High-voltage output	Pulse output connector: aviation connector. One standard 1 m high-voltage cable connects the supply and load; cable length optional.

Input terminal block

Terminal	Signal
L	Line
N	Neutral
G	Protective earth
/	/

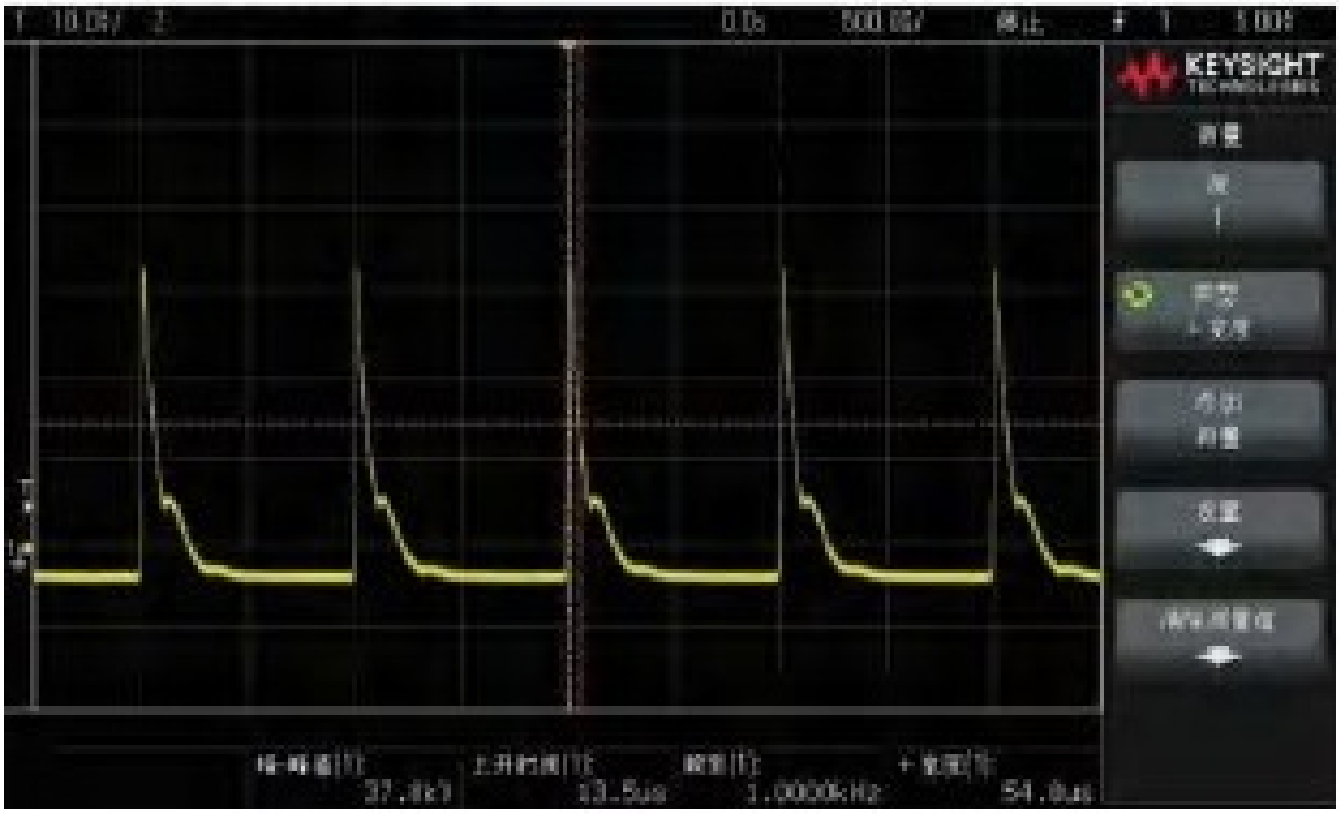
RS-485 communication interface

Terminal	Signal
A	Signal line
B	Signal line
G	Signal ground
/	/

Fiber-optic interface

Terminal	Signal
1	Optical signal input
2	Optical signal output

Output waveform

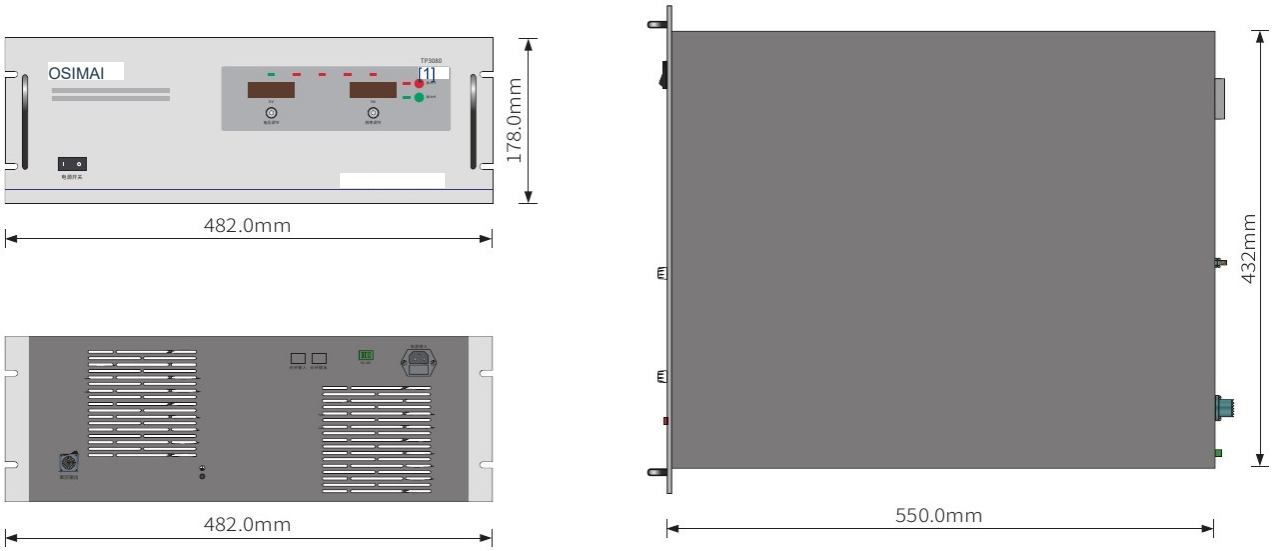


Typical applications

Plasma systems; electrostatic dust removal; animal experiments; lightning waveform simulation; dielectric withstand testing, etc.

Outline dimensions

Dimensions in mm.



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