osi1701 Series

5 kV; 2 kW; ripple <10 ppm; stability <10 ppm



Product Introduction

The OSIMAI osi1701 series is a low-ripple, highly stable, high-precision high-voltage supply for standard 19-inch racks. Full-power ripple is less than 10 ppm, and 8-hour full-power stability is better than 10 ppm. Higher performance specifications can be customized.

Product Features

- 5 kV output voltage
- 2 kW output power
- Higher specifications customizable
- Ripple below 10 ppm
- Stability better than 10 ppm
- Overvoltage, overcurrent, short-circuit, arc and overtemperature protection

Specifications

Parameter	Description
Input	220 VAC ±10%, 50/60 Hz, 10 A.
Output	5 kV, 2 kW; continuously adjustable from zero to maximum voltage; negative polarity.
Front-panel status indication	High voltage ON/OFF; voltage/current indication; constant-voltage/constant-current operating-mode indication.
Voltage control	Integral rotary encoder sets zero to maximum voltage. External 0–10 V analog control sets zero to maximum output voltage. RS-485 digital control using standard Modbus protocol sets zero to maximum voltage.
Current control	Integral rotary encoder sets zero to maximum current. External 0–10 V analog control sets zero to maximum current. RS-485 digital control using standard Modbus protocol sets zero to maximum current.
Voltage regulation	Load: 0.01%, no load to rated load. Line: ±0.01% for ±10% input-voltage change.
Current regulation	Load: 0.01%, no load to rated load. Line: ±0.01% for ±10% input-voltage change.
Ripple	Better than 10 ppm peak-to-peak at rated output.
Ambient temperature	Operating: 0 to +50°C. Storage: −20 to +80°C.
Stability	Less than 10 ppm per 8 hours after 0.5-hour warm-up.
Temperature coefficient	Voltage and current: better than 10 ppm/°C.
Humidity	10–90%, non-condensing.
Voltage/current indication	Four-digit LED display; accuracy ±1% at rated output.
Dimensions	W 482 × H 178 × D 660 mm.
High-voltage cable	Integral 2 m shielded coaxial cable, non-detachable.
Weight	10–20 kg.

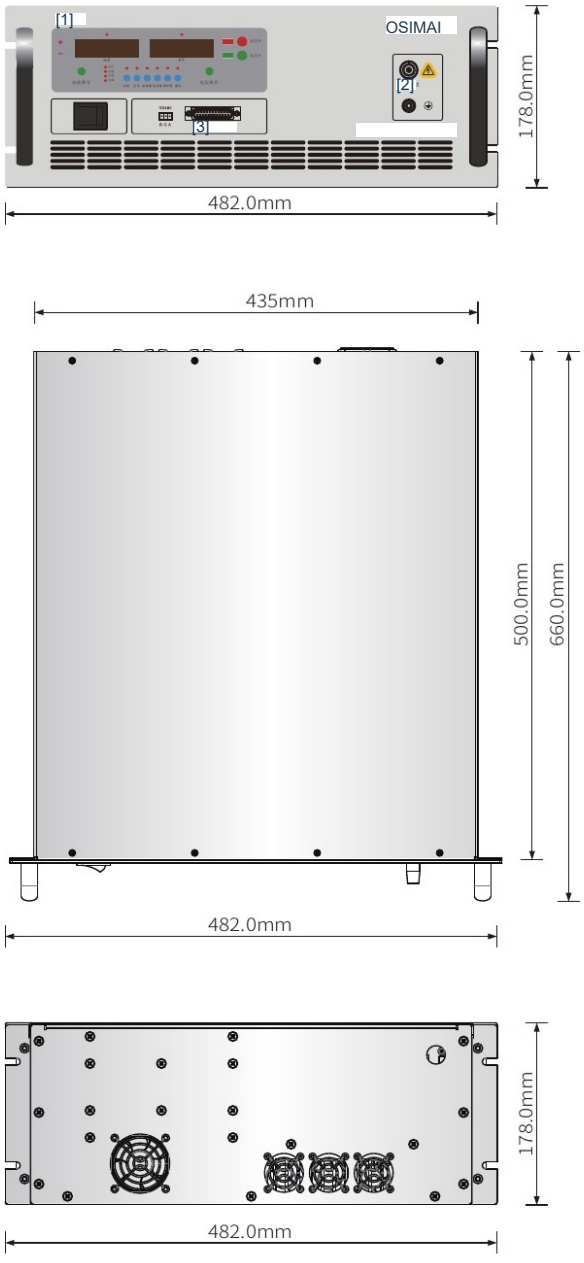
Power Input Terminals J1

Pin	Signal	Description
1	L	Line
2	N	Neutral
3	G	Earth

Typical Applications

Semiconductor testing; materials analysis; electrostatic applications; electron microscopy; scientific research.

Dimensions



[1] osi1701

[2] HV OUT

[3] ANALOG CONTROL