osi1214 Series

4 kW;0–2 kV;2U



Product introduction

The OSIMAI osi1214 high-power HV supply has low ripple better than0.1% peak-to-peak. Air insulation and a fast-response internal unit provide precise regulation and extremely low arc-discharge current. It operates efficiently and reliably in resistive-load applications such as sputtering ion sources.

Product features

- Output voltage2 kV
- Output power4 kW
- 0.1% peak-to-peak ripple
- Fast recovery and low arc-discharge current
- Conforms to CE standards
- Nanosecond protection response
- Safety interlock
- Customization to user requirements

Specifications

Parameter	Specification
Input voltage	380 VAC.
Input current	20 A.
Output voltage	Selectable maximum voltages1–2 kV;maximum power4 kW.Continuously adjustable from zero to maximum voltage;single negative polarity.
Ripple	Better than0.1% p-p at rated output.
Rise time	<300 ms;10 ms custom option.
Adjustment resolution	0.02% of rated voltage.
Output accuracy	<0.2% (repeatability).
Analog control	0–10 V;repeatability0.2%.
Voltage/current resolution	0.1 V /1 mA.
Remote-control interface	RS-485;RJ45.
Stability	Less than 0.1% per 8 hours after a 0.5-hour warm-up.
Ambient temperature	Operating:0°C to45°C.Storage:−20°C to80°C.
Humidity	10–90%, non-condensing.
Dimensions	Width482 mm,height89 mm,depth380 mm.

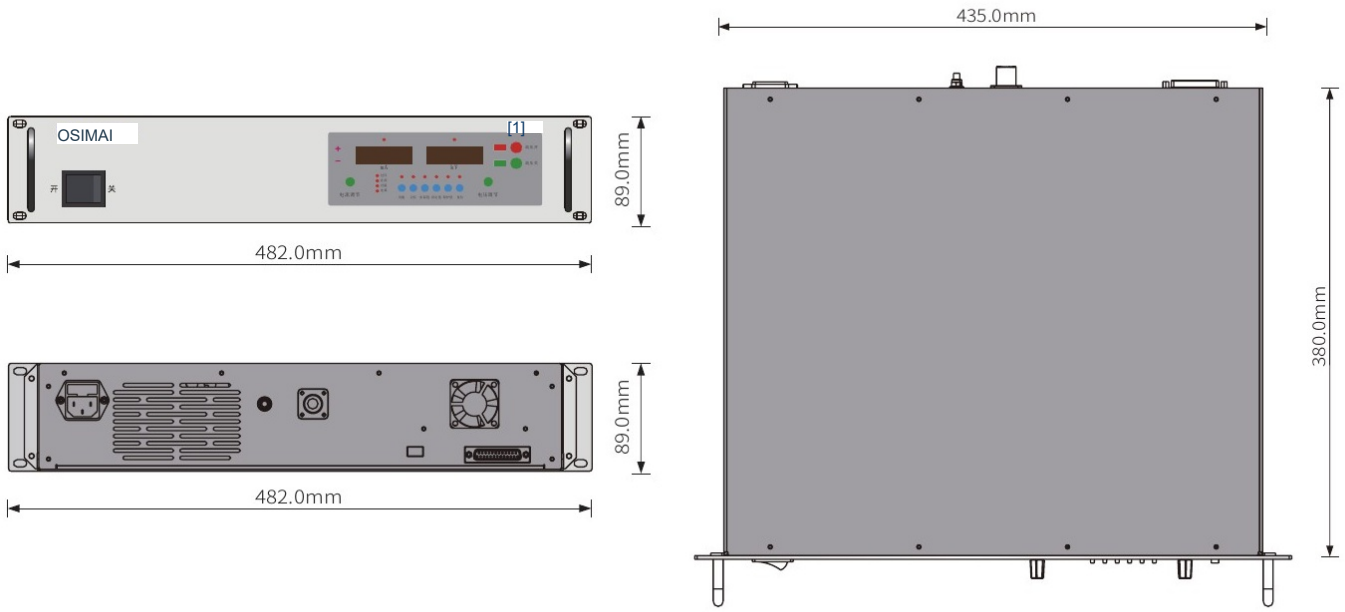
Model selection

Rated output(kV)	Rated output(mA)	Positive polarity	Negative polarity
1	4000	osi1214P1-4000	osi1214N1-54000
2	2000	osi1214P2-4000	osi1214N2-54000

Typical applications

Withstand-voltage testing;burn-in testing;etching;coating;semiconductor applications;ion sources;accelerators.

Outline dimensions



[1] osi1214