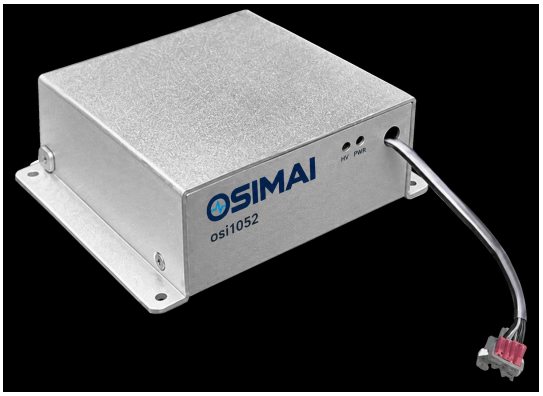
osi1612 Series

20 kV, 6 W, UL and CE certification compliance



Product introduction

The osi1612 series is a 6 W high-voltage module with output switchable between 10 kV, 15 kV and 20 kV using a selector switch. Switch-mode power conversion provides a high-performance, low-noise, high-efficiency design. The compact package delivers excellent ripple and stability performance. This intelligent digitally controlled modular HV supply meets various customer control settings and provides comprehensive fast voltage/current transient response for fault-free operation. It is fully featured with a wide output range.

Product features

- 12 VDC ±10% input
- Maximum output power 6 W
- Selector-switch output voltage selection
- Voltage and frequency display
- Output voltage 10 kV, 15 kV or 20 kV
- Comprehensive overvoltage, overcurrent and arc protection
- UL and CE certification compliance

Specifications

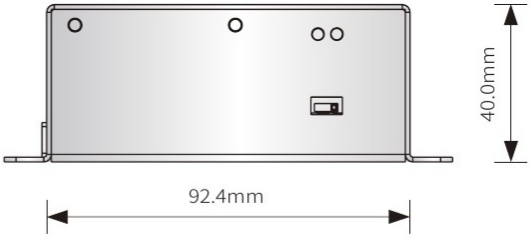
Parameter	Specification
Input	12 VDC ±10%.
Output	20 kV high-voltage output at power-on; 0.3 mA.
Voltage control	Three fixed-output settings; constant-voltage/constant-current control, current limited to 0.3 mA.
Voltage regulation	Load: better than 0.01%, no load to rated load. Line: better than 0.01% for ±10% input change.
Current regulation	Load: better than 0.01%, no load to rated load. Line: better than 0.01% for ±10% input change.
Ripple	Better than 1% RMS at rated output.
Ambient temperature	Operating: 0°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.
Humidity	10–90%, non-condensing.
Voltage/current accuracy	Voltage accuracy ±(0.5% + 1); current accuracy ±(4% + 1).
Dimensions	92.4 mm wide, 40 mm high, 96 mm deep.
Weight	0.8 kg.
High-voltage cable	Built-in unshielded HV cable; standard length 2 m, outside diameter 5.5 mm; non-detachable.
Certification	Complies with UL and CE certification standards.

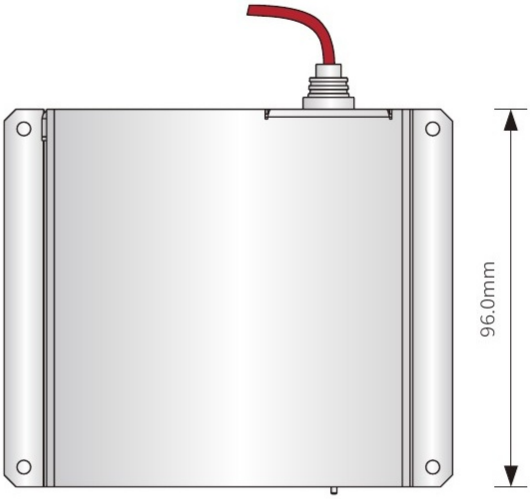
Typical applications

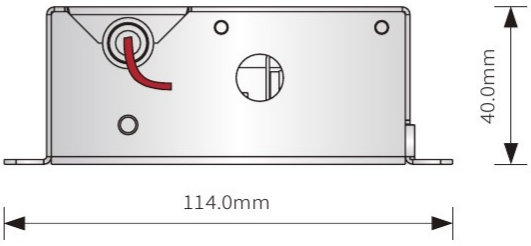
Plasma sterilization; dust removal; air purification; electrostatic fields; capacitor charging and discharging.

Outline dimensions

Dimensions in mm.


40.0mm
92.4mm


96.0mm


40.0mm
114.0mm