# osi1618 Series

30 kV; 12 W; complies with UL and CE certification standards




## Product Introduction

The OSIMAI osi1618 series is an intelligent modular high-voltage power supply. Digital control accommodates a variety of customer control settings, and comprehensive, rapid response to sudden voltage and current changes ensures fault-free operation. The product is fully featured, offers a wide output range, and supports additional custom functions through software.

## Product Features

- Adaptive AC 230 V / 220 V / 110 V input
- Shuts down when high voltage falls below 90% of rated value
- Ground detection / shutdown on grounding fault
- Complete overvoltage, overcurrent and arc protection
- 30 kV output voltage
- Maximum output power 12 W
- Digitally programmable
- UL and CE certification

## Specifications

| Parameter | Description |
| --- | --- |
| Input | AC 230 V / 220 V / 110 V ±10%, 50/60 Hz; automatic input switching. |
| Output | 30 kV high-voltage output at power-on, 1 mA. |
| Front-panel switches and status-pin logic | From left to right: three fixed high-voltage output switch positions; status pins: □ high-voltage output, □ ground detection, □ arc fault, □ common ground. |
| Voltage control | Three fixed output levels; constant-voltage and constant-current control; current limited to 1 mA. |
| Voltage regulation | Load: better than 0.01% from no load to rated load. Line: better than 0.01% for ±10% input-voltage change. |
| Current regulation | Load: better than 0.01% from no load to rated load. Line: better than 0.01% for ±10% input-voltage change. |
| Ripple | Better than 1% rms at rated output. |
| Ambient temperature | Operating: 0 to +50°C. Storage: −20 to +80°C. |
| Temperature coefficient | Voltage and current: better than 100 ppm/°C. |
| Stability | Better than 0.1% per 8 hours after a 0.5-hour warm-up. |
| Humidity | 10–90%, non-condensing. |
| Voltage/current accuracy | Voltage: ±(0.5%+1). Current: ±(4%+1). |
| Dimensions | W 145 × H 68 × D 111 mm. |
| Weight | 1 kg. |
| High-voltage cable | Integral unshielded high-voltage cable; standard length 2 m, outside diameter 5.5 mm; non-detachable. |
| Certification | Complies with UL and CE certification standards. |

## Typical Applications

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

## Dimensions







