MINIATURE HIGH VOLTAGE MODULE

osi1000 SERIES

0-600 V output | 0.1 W | PCB mounting



OSIMAI

Compact high-voltage power module.

Product features and specifications are listed below.

PRODUCT FEATURES

1. Output voltage up to 0.6 kV; output power 0.1 W.
2. Low output ripple and noise: less than 5 mV P-P.
3. High stability: 0.001% per hour.
4. Low temperature coefficient: 0.001% per degree Celsius.
5. Arc and short-circuit protection.
6. External potentiometer or external control-voltage setting.
7. Compact size; printed circuit board mounting.
8. Positive or negative output polarity.
9. Six-sided shielding for strong interference immunity.

ELECTRICAL SPECIFICATIONS

Parameter	Specification
Input voltage	5 +/-2%
Input current	No load: 5 mA; full load: 90 mA
Output voltage	0-600 V, up to 0.6 kV
Listed output voltage options	50 V, 100 V, 150 V, 200 V, 250 V, 300 V
Maximum output power	0.1 W

SPECIFICATIONS & APPLICATIONS

Parameter	Specification
Ripple / noise	5 mV at maximum voltage and maximum current, typical.
Stability	0.001% per hour
Temperature coefficient	10 ppm/deg C
Line regulation	0.001%, typical
Load regulation	0.01%, typical
Output voltage control	External control voltage: 0 V to +2.5 V; or external potentiometer: any resistance from 20 kohm to 100 kohm.
Control input impedance	100 kohm
Output voltage rise time	50 ms (0-99%)
Operating temperature	Commercial: -10 to +50 deg C; Industrial G: -25 to +65 deg C; Special T: -40 to +95 deg C. All are case temperatures.
Storage temperature	Commercial: -20 to +70 deg C; Industrial G: -25 to +95 deg C; Special T: -40 to +125 deg C.
Operating humidity	Below 80%, non-condensing.
Storage humidity	Below 80%, non-condensing.
Protection	Reverse input-voltage polarity; excessive or reversed control voltage; continuous overload; short circuit; arcing.
Weight	5 g (0.7 oz)

TYPICAL APPLICATIONS

Photomultiplier tubes; laser power; RF power; ionization chambers; proportional counter tubes; Geiger-Muller (G-M) counter tubes; electrophoresis; lenses; mass spectrometers; detectors; microchannel plates; scintillators; electron beams; ion beams; electrostatic printing; high-voltage bias; medical and chemical applications; scientific experiments; industrial applications.

DIMENSIONS

D 11 mm x W 11 mm x H 11 mm