osi1624 Series

40 kV; 60 W; low-noise precision high-voltage power supply



Product Introduction

The OSIMAI osi1624 series is a compact, highly stable, low-ripple high-voltage module. Applications include photomultiplier tubes, electron beams and various detection equipment. The standard series provides output voltage and current monitoring.

Product Features

- Low noise; high stability
- Output controlled by external potentiometer or external voltage
- Reliability-centered design with arc protection and continuous output-circuit protection
- Compact size; low temperature ripple

Specifications

Parameter	Description
Input voltage/current	5 W: +12 VDC ±10%, 0.8 A. 10 W: +24 VDC ±10%, 0.7 A. 30 W: +24 VDC ±10%, 1.7 A. 60 W: +24 VDC ±10%, 3.4 A.
Output voltage	Continuously adjustable from zero to rated output; positive or negative polarity selectable.
Output voltage control	Remote voltage programming 0–5 VDC provides zero to rated output.
Voltage regulation	Line: 0.01% for ±10% input-voltage change. Load: 0.01% from 10% load to full load.
Stability	Less than 0.01% per hour after a 0.5-hour warm-up.
Ripple	Better than 0.05% at rated output.
Temperature coefficient	Voltage and current: better than 80 ppm/°C.
Monitoring	+5 VDC represents rated voltage and current; accuracy ±2%; output impedance 1 kΩ.
Reference voltage	+5 V ±2%.
Protection	Overload, arc and short-circuit protection.
Ambient temperature	Operating: 0 to +60°C. Storage: −25 to +70°C.
Humidity	20–80%, non-condensing.

Model Selection (Customizable)

Output kV	Output mA	Positive model	Negative model
6	1.7	osi1624P6-10	osi1624N-10
10	1	osi1624P10-10	osi1624N10-10
30	0.34	osi1624P30-10	osi1624N30-10
40	0.125	osi1624P40-5	osi1624N40-5

Typical Applications

Photomultiplier tubes; high-voltage testing; microchannel plates; radiation counters; mass spectrometers; electrostatic chucks; electron/ion beams.

Dimensions



