osi1300 Series

±2 kV;120 W;1 Hz–1 MHz;square-wave pulses;for electro-optic drivers



Product introduction

The OSIMAI osi1300 is a multifunction HV pulse supply with continuously adjustable voltage,frequency and pulse width.HV output rises linearly and smoothly,with steps smaller than10 V.External potentiometers allow remote output-voltage/frequency control.External voltage/frequency monitoring,HV output overvoltage/short-circuit protection and a safety interlock are provided.

Product features

- Output peak-to-peak voltage4 kV
- Differential output with reversible polarity
- Pulse width16–5000 ns
- Rise/fall times<8 ns
- Maximum frequency1 MHz
- Output power120 W
- Water cooling

Specifications

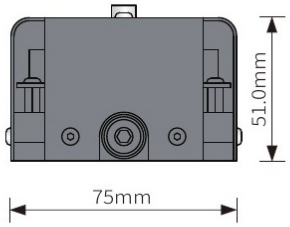
Parameter	Specification
DC module input voltage	24 VDC ±10%.
DC module rated output power	120 W.
DC module output polarity	Positive/negative2 kV bipolar output.
Pulse module output voltage	−2 kV to+2 kV;step<10 V.
Pulse module output type	Differential output;relative polarity reversible;output must not be grounded.
Pulse module cooling	Water cooling.
Pulse module frequency range	1 Hz–1 MHz.
Pulse rise time	<8 ns.
Pulse fall time	<8 ns.
Pulse width adjustment range	16–5000 ns.
Pulse triggering	Two TTL trigger signals,0–5 V.
Pulse trigger delay	<200 ns;delay variation for a given unit equals trigger-method jitter.
Pulse trigger delay jitter	<20 ns;jitter remains unchanged for a given unit.
Load type	Capacitive;capacitance<10 pF.
Operating temperature	Standard room temperature.
Operating temperature	Standard.
Pulse-trigger dead-time protection	Provided.
Dimensions	Pulse module:width148 mm,height75 mm,depth51 mm.DC module:width175 mm,height110 mm,depth42 mm.
High-voltage cable	Length customizable.

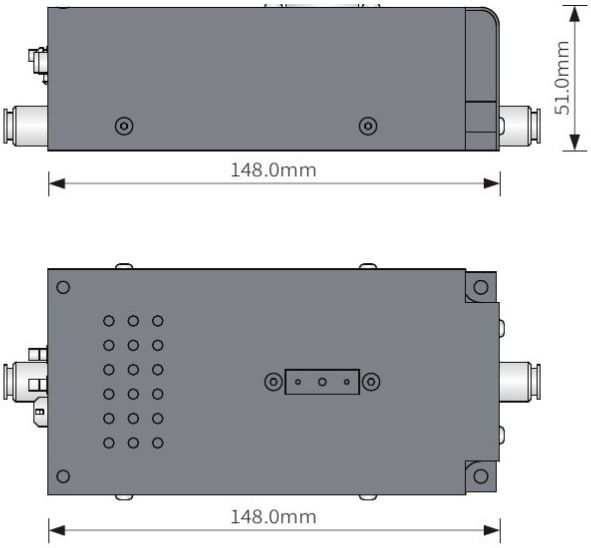
Typical applications

Electro-optic modulators;Pockels cells;plasma;AC electrostatic fields;scientific research and other applications.

Outline dimensions

Pulse module





DC module

