# Time-of-Flight Mass Spectrometry Power Supplies

### Dual Polarity, High Stability, Low Ripple High Voltage Power Supply

### The Power Behind Your TOF Mass Spectrometer

The MS/TOF Series are our custom designed high voltage power supplies for time-of-flight mass spectrometry (MS/ TOF). They belong to our Konekt-hv<sup>™</sup> family of high voltage supplies designed for numerous analytical instrument applications.

These 5 models range from 1kV to 30kV and are specifically designed for the demanding temperature stability and low ripple requirements of MS/TOF instrument applications.



#### Features

S/TOF Series S/TOF Series

S/TOF Series

S/TOF Series

S/TOF Series

**IS/TOF** Series

**IS/TOF** Series

S/TOF Series

**NS/TOF** Series

**AS/TOF** Series

MS/TOF Serie

MS/TOF Serie

MS/TOF Serie

MS/TOF Serie

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MS/TOF Se

MS/TOF Se

MS/TOF Se

MS/TOF S

MS/TOF S

MS/TOF S

MS/TOF S

MS/TOF S

MS/TOF S

MS/TOF

MS/TOF

- Input Voltage 24VDC
- Input Current 1.0 amp (max)
- Synchronization Input Available
- Output Voltages 1kV, 2.5kV, 5kV, 10kV, 30kV
- Temperature Coefficient <25ppm/°C
- Output Power = 10W
- Output Ripple 0.001%
- Operating Temperature Range -5 °C to +60 °C
- Storage Temperature -40 °C to +70 °C

## **Custom Applications**

The Konekt-hv<sup>™</sup> family of power supplies can be quickly and cost effectively modified for custom applications. Other output voltage and current ratings, custom control and programming features as well as special mechanical configurations are some of the many requirements that can be satisfied.

Call K and M for a prompt review of your application.





SPECIFICATIONS					
Parameter	MS1024	MS1025	MS1026	MS1027	MS1028
Input Voltage ( <u>+</u> 10%)	. 24VDC	24VDC	24VDC	24VDC	24VDC
Input Current	. <1.4A max	<1A	<1A	<1A	<1A
Output Voltage	0- <u>+</u> 30kV	0- <u>+</u> 1kV	0- <u>+</u> 2.5kV	0- <u>+</u> 5kV	0- <u>+</u> 10kV
Output Current	0-500uA	10mA	5mA	2mA	1mA
Line Regulation	10ppm typical	10ppm typical	10ppm typical	10ppm typical	10ppm typica
Load Regulation	10ppm typical	10ppm typical	10ppm typical	10ppm typical	10ppm typica
Ripple	0.001%	10mV	20mV	40mV	50mV max
Voltage Program	. 0-10V	0-10V	0-10V	0-10V	0-10V
Current Program	0-10V	NA	NA	NA	NA
Voltage Monitor	. 0-10V	0-10V	0-10V	0-10V	0-10V
Current Monitor 1 (precision)	. 0-10V	0-10V	0-10V	0-10V	0-10V
Current Monitor 2	0-10V	NA	NA	NA	NA
Enable (TTL levels)	. Low=off	NA	NA	NA	NA
Polarity (TTL levels)	. Low=neg	Low=pos	Low=pos	Low=pos	Low=pos
Reference	. 10.2V	NA	NA	NA	NA
Leakage Indicator Set Point	20uA	NA	NA	NA	NA
Reversing Time	<2 sec	<2 sec	<2.5 sec	<2.5 sec	<3 sec
Dimensions	2″x5″x9″	1.85"x3.85"x7.85"	1.85"x3.85"x7.85"	1.85"x3.85"x7.85"	6"x8.5"x1.85
Temperature Stability	100ppm	<25ppm	<25ppm	<25ppm	<25ppm

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11 Interstate Drive West Springfield, MA 01089-4531 USA (413) 263-6200 • 800-442-4334 • fax: (413) 737-0608 http://www.kandm.com



