MS Series **MS** Serie **MS** Serie **MS** Serie **MS** Serie MS Serie **MS** Serie **MS** Serie MS Serie **MS** Seri **MS** Seri **MS** Seri **MS** Ser **MS** Ser **MS** Ser **MS** Ser MS Sei MS Se **MS** Se MS Se MS Se MS Se MAC C

MS1005

The Power Behind Your Mass Spectrometer

The MS Series are our custom designed high voltage power supplies for mass spectrometry (MS).

The model MS1005 is specifically designed for electrospray applications.

Features

- Solid state polarity switching
- Aluminum rectangular package
- Output controlled by external control voltage
- Scaled HV voltage monitor
- Output current monitors
- TTL polarity control (high or open for POS)
- TTL external shutdown (high or open for HV off)
- TTL fault indicator (low indicates fault)
- Short circuit & arc protection
- LV RTN to HV RTN isolation: 100 ohms in parallel with 0.1uF
- Case is electrically connect to HV RTN
- 10VDC internal reference
- LV connector: 3M 3428-5202
- V1 connector: TBD
- V2 connector: TBD
- Manufactured using surface mount technology

<u>+</u>7KV High Voltage Power Supply w/ Dual Output Polarity Switching

Power Supplies



Custom Applications

The model MS1005 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 ITT for a prompt review of your application.



SPECIFICATIONS

Parameter	Units	MIN	NOM	MAX	Notes
Input voltage	VDC	21.6	24	26.4	
Input current	mADC			800	
Output voltage 1 (V1)	<u>+</u> KVDC	2		7	1
Output voltage 2 (V2)	<u>+</u> KVDC	1.5		6.5	2
V1 monitor output (Vm)	+VDC	0		10	1
Output current (V1)	<u>+</u> uA			1	
Output current (V2: pos/neg)	<u>+</u> uA			100/10	
Current monitors (V1 & V2)	+VDC	0		10	3
Monitor impedance (all)	K-Ohm			10	
Control input (Vc)	+VDC	0		10	2
Control input impedance	K-Ohm	100			
Output ripple (V1 & V2)	Vp-p			1	
Line regulation	. %			0.1	
Load regulation	%			0.1	
Temperature regulation	. ppm/⁰C			200	
Operating temperature	. °C	-5		+60	
Storage Temperature	°C	-40		+70	
NOTES: 1. The output voltage ratio is 1kV/V <u>+(0.75% +25V)</u> . The V1 monitor output ration is Vout/1000 <u>+(</u> 0.75% +25mV)					
 V2 tracks V1 with a 500V offset. V1 and V2 are the same polarity, but the magnitude of V2 is always 500 <u>+</u>20V less than V1. 					
3. The V1 current monitor output is 10V/uA <u>+(5%+TBDmV)</u> The V2 current monitor output is 0.1V/uA <u>+(</u> 5%+60mV)					

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