MS1014 Power Supplies

±10KV High Voltage Power Supply

The Power Behind Your Mass Spectrometer

The MS Series are our custom designed high voltage power supplies for mass spectrometry (MS). They belong to our konekt-hv™ family of high voltage supplies designed for numerous analytical instrument applications.

The model MS1014 is specifically designed to provide channel electron multiplier high energy dynode voltage.

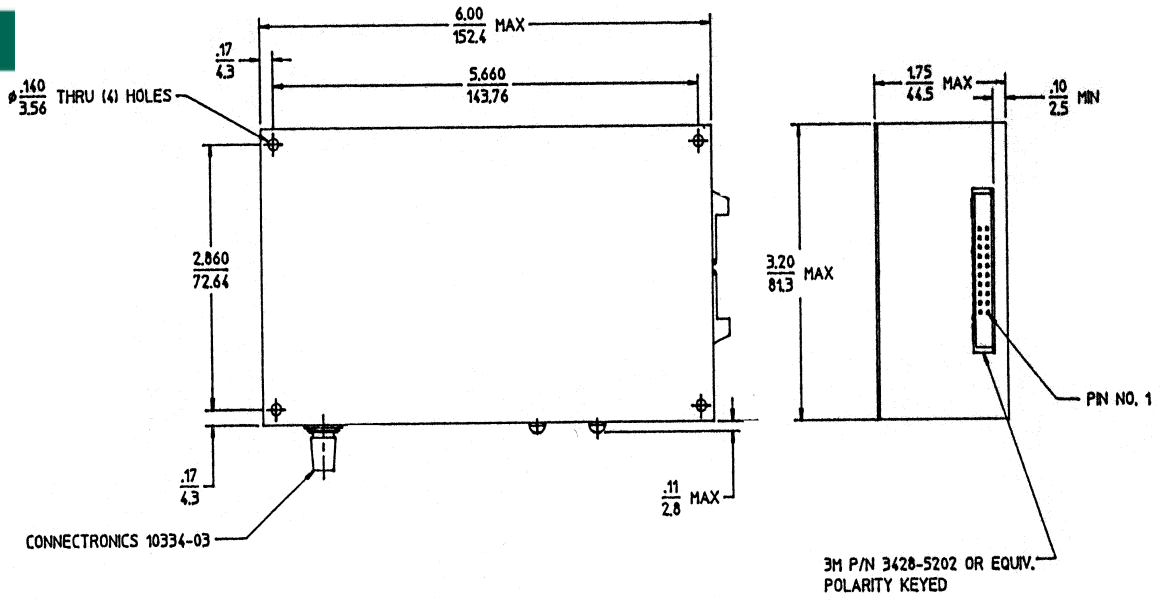
Features

- Solid state polarity switching
- Aluminum rectangular package
- LV connector: Assman AWH20A0202 or equivalent, polarity keyed
- Main HV connector: Alden G-100
- TTL polarity selection: high or open for positive
- TTL enable: high or open for HV off
- Scaled HV voltage monitor
- Short circuit & arc protection
- Isolation LV RTN to HV RTN: 100 ohms in parallel with .47uF
- Isolation LV RTN to case: 100 ohms in parallel with .47uF
- Manufactured using surface mount technology

Custom Applications

The konekt-hv™ 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	Units	MIN	NOM	MAX	Notes
Input Voltage	VDC	22	24	26	
Input Current	mADC	---	---	300	
Main HV Output	±KVDC	9.9	10	10.1	
Output Current	uA	---	---	10	
Output Ripple	vp-p	---	---	.55	
Line Regulation	%	---	---	0.1	
Load Regulation	%	---	---	0.1	
Input Ripple Current	mAp-p	---	--	30	
Short Term Stability	%/hr	---	---	0.1	1
Long Term Stability	%/yr	---	---	0.5	1
Temperature Regulation	ppm/°C	---	---	300	
Internal Reference Output	VDC	4.975	5.00	5.025	
Reference Output Impedance	K-ohm	9	10	11	
HV Monitor ratio	-	3300:1	3333:1	3367:1	2
HV decay Time	sec	---	---	5	3
Operating Temperature	°C	-5	---	+60	
Storage Temperature	°C	-40	---	+70	
Operating Altitude	kft	---	---	+15	
Storage Altitude	kft	---	---	+50	

Dimensions ..... 6" x 1.75" x 3.2"

NOTES:
1. Stability is specified with constant temperature after a one hour warm-up.
2. The HV monitor is referenced to the Internal Reference Output. The HV Monitor Output is negative with respect to the Reference for a negative output voltage and positive with respect to positive output voltage.
3. The HV output shall decay to less than 60V within the specified time when input power is removed or the supply is disabled.

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K and M Electronics

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