



Digital HV-PSU

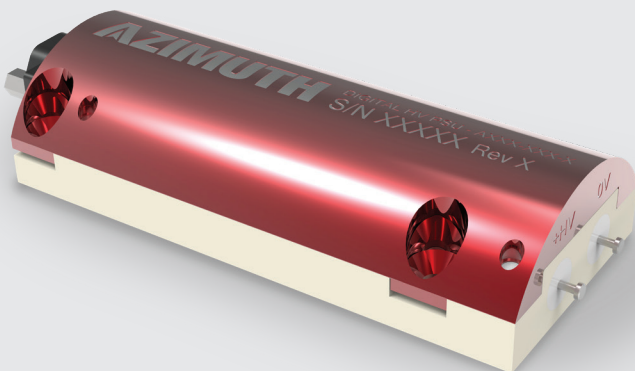
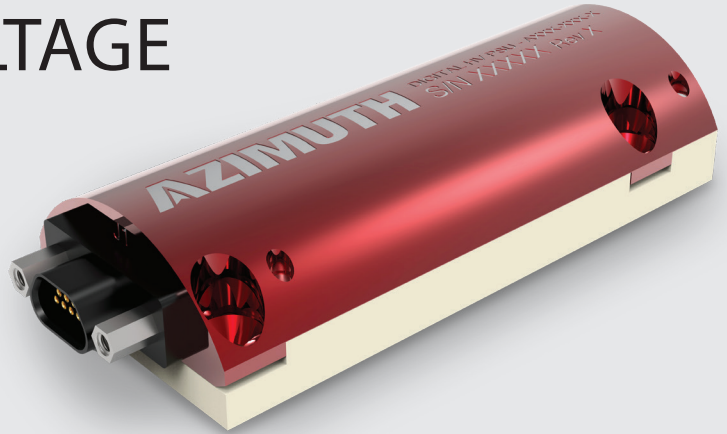
NEW

MINI 2kV HIGH VOLTAGE POWER SUPPLY

The miniature Digital High Voltage Power Supply is a highly robust, low power unit for use in high temperature and high shock and vibration environments.

Designed for the efficient supply of high voltage to photomultiplier tubes and ionization chambers, the unit has an extremely small footprint and convenient digital control of the output.

The HV is controlled through a 2-wire I2C connection, with non-volatile storage to maintain your HV setting, or can be pre-programmed to your required HV setting. The unit is configured with a 9-pin MDM socket, and simple external terminals at the output.



Features

- 500V – 2kV Output
- Only 2.75" (70mm) x 1.22" (31mm)
- Digital HV control – I2C
- Lower power consumption
- 175°C Operating Temperature
- Robust design and packaging

Applications

- PMT Power Supply
- Geiger Muller tube supply
- Proportional counters

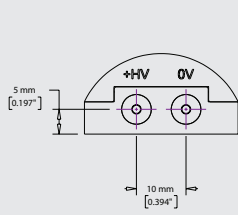
Benefits

- Small footprint
- Easy to use digital control
- High reliability design

Quality, precision and reliability.

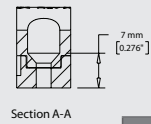
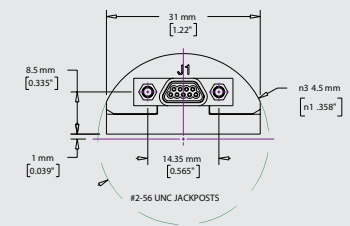
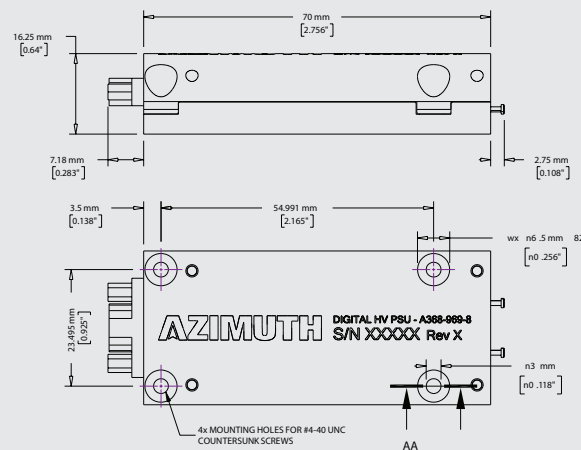
www.azimuthmwd.com

Description	Value	Units	Comments		
Output					
Output Voltage	500 - 2000	Volts			
Output Ripple/Noise	200 500	mV mV	Typical Max		
Voltage Regulation Temperature Coefficient	+/-0.00035 +/-0.0005	%/°C %/°C	Typical Max		
Line Regulation	+/-0.0015	%/Volt	Typical, from +20 to +40V i/p		
Load Regulation	+/-0.05%	%	Max w/50% load variation		
Output Voltage Rise Time	15	mS	Typical, to 95% of set point		
Max Current	100	µA	Output voltage dependent		
HV Signal Output Sensitivity	1.0	V/kV	Nominal		
Input					
Input Voltage	+25 to +40	Volts	Operates at lower input voltages, depending on HV and load requirement		
Input Current	Temp	Load		Typical, at Vin = 30V and Vout = 1500V	
		10MΩ	25MΩ		
	Amb	14	8		mA
	75°C	15	8		mA
	125°C	17	9		mA
	175°C	22	13	mA	
HV Control	I2C		Includes non-volatile storage		
Mechanical					
Length	70.0 (2.756)	mm (Inches)			
Width	31.0 (1.22)	mm (Inches)			
Environmental					
Operating Temperature	-25 to 175	°C			
Survival Temperature	-40 to 185	°C			
Vibration	30 20	g pk g rms	50 – 1000Hz		
Shock	1000	g	0.5mS, Half-Sine		



[MLDM] 9-Pin MDM Socket

Pin No.	Descpt.	Colour
1	+Vin	BLK
2	GND	BRN
3	SDA	RED
4	SCL	ORG
5	HV Sig	YEL
6	N/C	GRN
7	N/C	BLU
8	N/C	VIO
9	N/C	GRY



Terminals

Pin	Descpt.
+HV	+HV
0V	GND

Contact Us

Azimuth Oilfield Systems Limited,
 Unit 1 Kintore Business Park
 Kintore, Aberdeenshire
 AB51 0YQ, United Kingdom

T: +44 (0)1224 773635
 E: info@azimuthmwd.com
www.azimuthmwd.com

Product Support

Azimuth Oilfield Systems Ltd. provides a responsive repair, calibration and product support service. Experienced personnel are available to troubleshoot or repair equipment, and provide general product technical assistance. If you need effective sensor support for your business, then contact support@azimuthmwd.com for more information.

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