



PROGRAMMABLE HIGH VOLTAGE POWER SUPPLY FOR PHOTODETECTOR BIASSING

- 300V AND 500V VERSIONS
- VERY LOW NOISE
- HERMETICALLY SEALED
- SMALL SIZE
- SHIELDED METAL CASE
- HIGH RELIABILITY



DESCRIPTION:

The **Model 524** series provides a fixed or variable high-voltage source for photodetector biasing or similar applications. The power converter uses techniques to minimize sharp switching transients which can interfere with sensitive circuits. Output voltage may be programmed by an external 0 to 4.5 volt source. To ensure low EMI levels, the output is filtered and the module is hermetically sealed in a non-isolated metal case. See interface description for detailed mechanical drawing and pinout configuration.

SPECIFICATIONS:

All specifications valid at 25°C

PARAMETER	524-1			524-2			Units
	Min.	Typical	Max.	Min.	Typical	Max.	
INPUT							
Power*	+4.75	+5.00	+5.25	+4.75	+5.00	+5.25	VDC
Current at max output (10µA load)	-	20	50	-	48	100	mA
Voltage Control (0V = max output)	0	-	+4.5	0	-	+4.5	V
OUTPUT							
Voltage	+100	-	+300	+300	-	+500	V
Current	-	-	0.150	-	-	0.125	mA
Ripple at max output (10µA load)	-	4	20	-	15	30	mV rms

TEMPERATURE		
Operating		-40°C to +85°C
Storage		-55°C to +125°C
SIZE		1.1" x 0.52" x 0.45" (0.247 cu. In.)
WEIGHT		0.26 Oz. (7.5 grams)
CONNECTIONS		Pins

*Operation up to 15VDC input possible with reduced output current and increased ripple.

Specifications subject to change without notice.

APPLICATIONS:

HV Bias Source for PIN and APD Detectors, Power Supply for Pulsed Emitters



"In the event this commodity will be transferred to a "foreign person" as defined in 22 CFR 120.16, either outside or within the United States, a validated US State Department license is required."