

**HIGH VOLTAGE UNIT  
TYPE : HV 501**

**Technical Data**

NUCLEONIX offers a standard **High Voltage Unit** Type **HV501** which is a compact STANDARD/NIM Module (2 bit). This is designed to meet the full HV bias requirement for a broad range of Nuclear radiation detectors like G.M. detectors, ionization chambers, scintillation detectors, photo multiplier tubes, etc,. Apart from this range of applications it also can be used as a high voltage source in areas where high degree of regulation, stability and accuracy are required. Output can be varied by a precision ten turn helipot and output indication is provided on a DPM.

**FEATURES :**

- (0-1500V) @ 1mA, continuously adjustable High Voltage output
- Indication on 3 1/2 LED DPM
- Ripple & noise less than 10mV (rms).
- Regulation better than 0.05% of full scale
- Two bit module

**SPECIFICATIONS**

**Output voltage :**

0V to 1500V continuously variable by a ten turn helipot provided on front panel. (All specifications are valid from 10V to 1500V).

**Output indication :**

Provided on a 3 1/2 digit LED, DPM.

**Output connector :**

MHV Socket (by default)  
UHF Socket (if specified)

**Output current :**

It can deliver upto a maximum of 1mA.

**Output polarity :**

The unit is offered with a choice of both POSITIVE or NEGATIVE POLARITY selectable by reversing a polarity connector. (Provided inside).

**Line & load regulation :** Better than 0.05% of full scale.

**Ripple :**

Less than 10mV (rms) peak to peak.

**Protections :**

Indefinite protection against overload and short circuit. Under overload the unit doesn't meet the specifications whereas on removal of short circuit it will recover by itself.

**Power requirement :**

Draws power from a standard BIN / NIM Power Supply or MINIBIN power supply.

+24V at 250mA

+12V at 50mA

-12V at 50mA

**Linearity :**

Better than +/- 0.2%

**Temperature stability :**

Better than 100 PPM.

**Mechanical dimensions :**

Standard 2 bit.

**Rear module connector :**

Amphenol connector Type : 26-159-24P-H (24 pin type) by default or NIM standard connector as per AEC specifications TID 20893 (Rev) Type : AMP 2041865 optional.

