

**"Innovation,
not imitation"**

New USB Powered Desktop High Voltage Power Supplies

USB HV Series - 0 to +/-200V through 0 to +/-2000V @ 1 Watt



PRODUCT DESCRIPTION

The USB Series High Voltage Power Supply includes a compact HV power supply, control software and accessories, providing all the connectivity needed right out of the box. Boasting unprecedented ease of use, both input power and programming voltage are supplied through the USB interface. After the control software has been installed on a Windows © compatible computer, the USB HV unit is "plug and play". The user enters the desired output voltage on the computer screen and clicks the enable button. The power supply is activated and continuous read-back of the high voltage is displayed. The LED is illuminated when the high voltage is enabled. Based on EMCO's proven stable, low noise, analog control regulation technology, coupled with a high-speed microcontroller and 12 bit interface components, the units provide excellent accuracy and regulation. Also featured in this HV power supply: 0 to 100% programmability, very low EMI/RFI emissions, arc, overload and short circuit protection. With a footprint less than 2.3 X 3.5 inches, these supplies are ideal for desktop or workbench areas. They replace much larger, more expensive power supplies. All accessories needed to get started are supplied so users are set up in minutes. Call or email today for your own USB HV power supply.

Generous quantity discounts are offered.
Typical delivery: stock to one week.
Call or email with your requirements today!

FEATURES

- 0 to 100% Programmable Output
- Precision Regulated High Voltage
- Very Low Ripple, as low as 25PPM!
- Voltage Monitor / Read-back
- High Stability
- Very Low EMI/RFI
- Arc, Overload & Short Circuit Protected
- Plug & Play High Voltage!
- One unit per Computer

APPLICATIONS

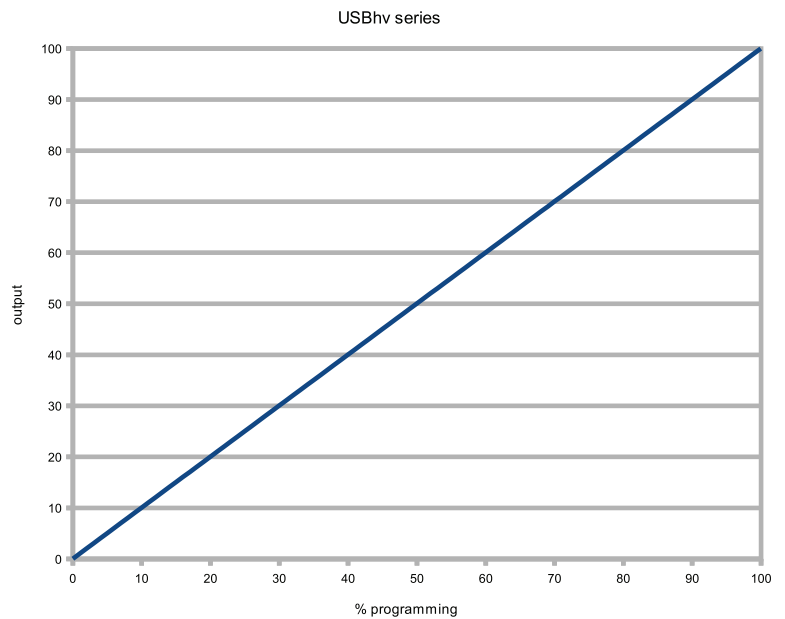
- High Voltage Experiments
- Avalanche Photodiodes
- Photomultiplier Tubes
- Solid State Detectors
- EO Lenses
- Electrophoresis
- Piezo Devices

OPTIONS

RoHS 'R' suffix denotes the product is designed to meet RoHS requirements
 I.E. USB20PR

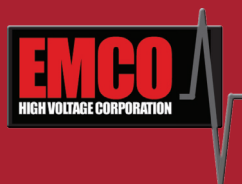
MODEL	OUTPUT VOLTAGE	MAXIMUM OUTPUT CURRENT ^{*1}	RIPPLE FULL LOAD P-P ^{*2}
USB02P	0 to +200V	0 to 5mA	<0.01%
USB02N	0 to -200V	0 to 5mA	<0.01%
USB05P	0 to +500V	0 to 2mA	<0.005%
USB05N	0 to -500V	0 to 2mA	<0.005%
USB10P	0 to +1000V	0 to 1mA	<0.001%
USB10N	0 to -1000V	0 to 1mA	<0.001%
USB12P	0 to +1250V	0 to 0.8mA	<0.001%
USB12N	0 to -1250V	0 to 0.8mA	<0.001%
USB20P	0 to +2000V	0 to 0.4mA	<0.001%
USB20N	0 to -2000V	0 to 0.4mA	<0.001%

Output vs. Programming



Note:
 1. At maximum rated output voltage
 2. Typical performance

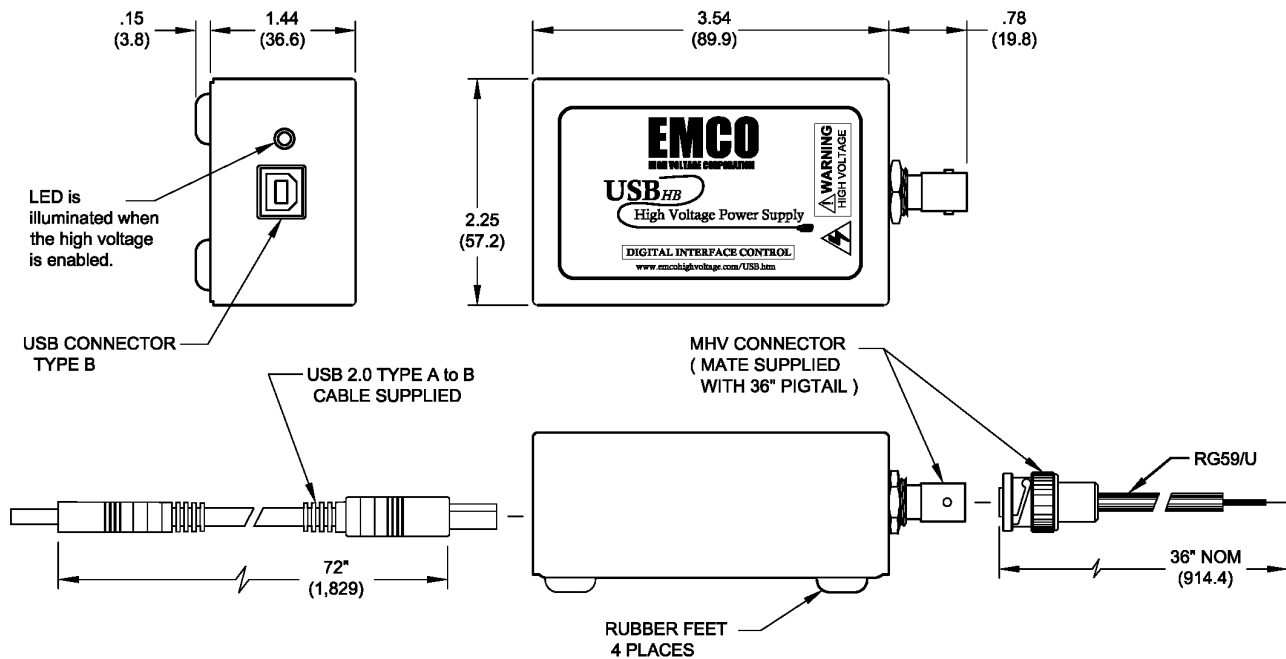
Dimensions are in Inches
 Dimensional Tolerances: +/- .03(.76mm)



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USB HV SERIES - ELECTRICAL SPECIFICATIONS*3 AND MECHANICAL CHARACTERISTICS

USB02 to USB20



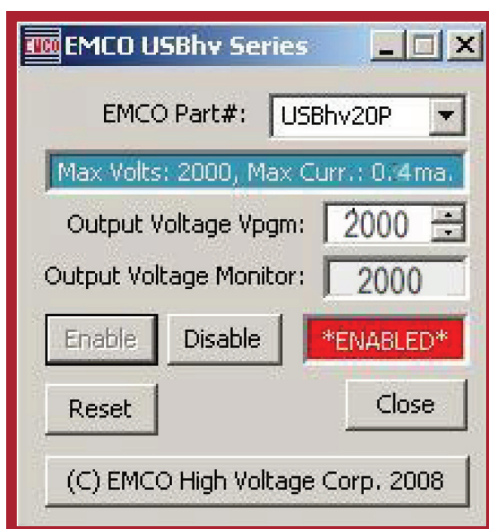
ELECTRICAL SPECIFICATIONS*1

STABILITY: < 0.005%hr*2
 LINEARITY: <0.5% (15% to 100% Vout)*2
 <5% (1% to 15% Vout)*2.
 OPERATING TEMP: -10° to + 50°C
 TEMPCO: <25ppm/°C*2
 STORAGE TEMP: -25° to +95°C

PHYSICAL CHARACTERISTICS

Size: 3.54 x 2.25 x 1.44 (89.9 x 57.2 x 36.6)
 Weight: < 8 Ounces (203 Grams)

Program Screen



USB HV INTERFACE

The USB interface is accessed in a Windows USB driver through a standard communications port. (Before you can control the USBHV Power Supply, you must install the software on the supplied USBHV driver.)

USB HV CABLING

A high-quality, double-shielded USB 2.0 Type A to B cable is included with each power supply.

USB HV PROGRAM SCREEN

The program screen controls and monitors the USB HV power supply. It displays operating status, operating conditions of the power supply and allows the unit to be configured in real time.

CONTROL SOFTWARE

Software is provided on a CD ROM which allows users to remotely operate the USB HV from a PC with Windows © 2000 XP/Vista operating system. Software allows for one unit per Computer. Adobe Acrobat Reader: recommended.

Note:

1. At maximum rated output voltage
2. Typical performance
3. Specifications after 1 hour warm-up, full load, at 25°C unless otherwise noted

