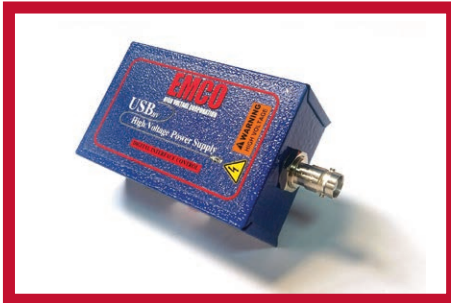


**"Innovation,
not imitation"**

USB SERIES

Powered Desktop High Voltage Power Supplies



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 XP 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.

FEATURES

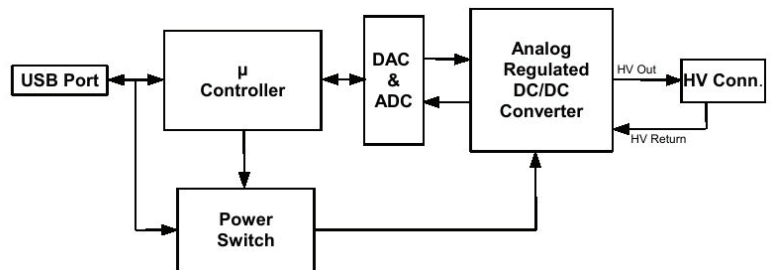
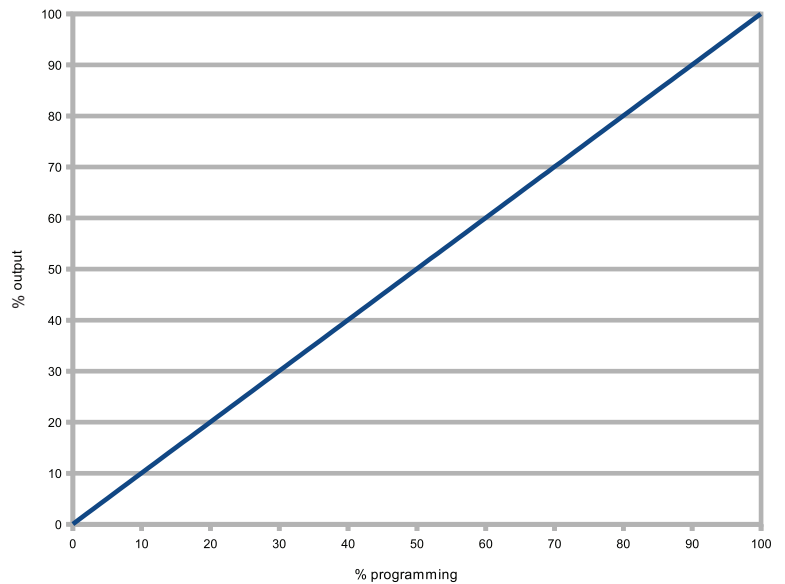
- 0 to 100% Programmable Output
- Precision Regulated High Voltage
- Very Low Ripple, as low as 25PPM!
- Voltage Monitor / Read-back
- High Stability
- Very Low EMI/RFI
- Arc, Overload & Short Circuit Protected
- Plug & Play High Voltage!
- One unit per Computer
- RoHS Compliant

APPLICATIONS

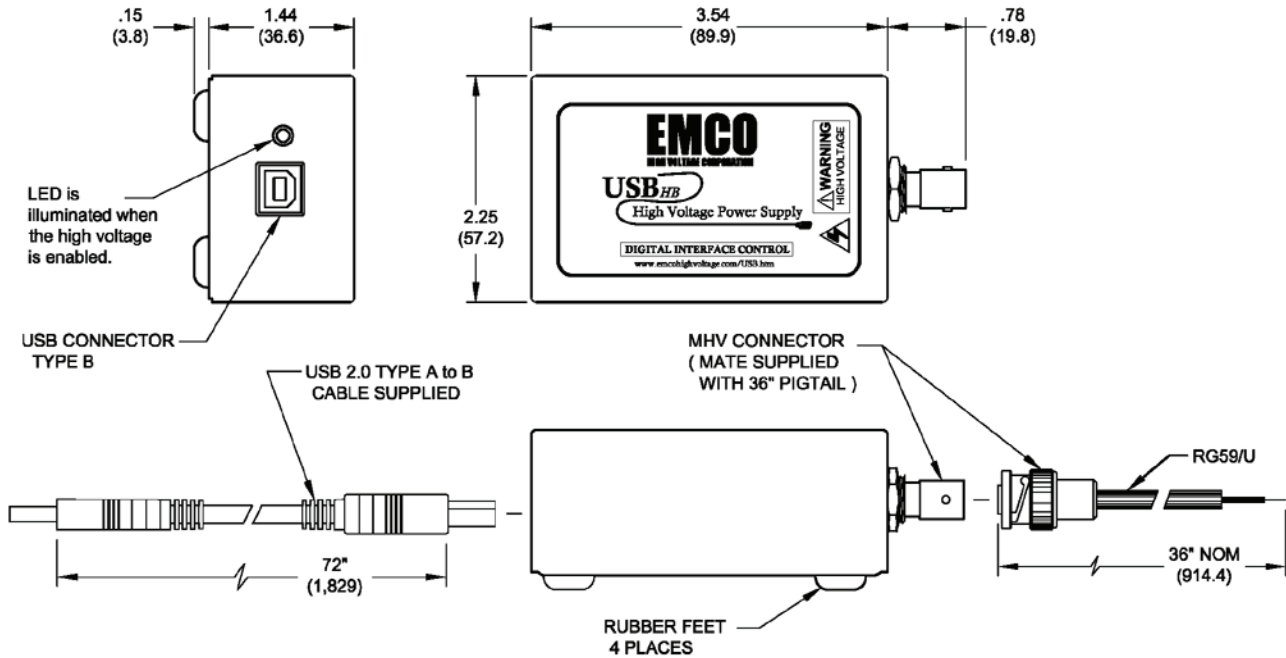
- High Voltage Experiments
- Avalanche Photodiodes
- Photomultiplier Tubes
- Solid State Detectors
- EO Lenses
- Electrophoresis
- Piezo Devices

| 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
USBhv series



USB02 to USB20



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

| PARAMETER | VALUE |
|------------|---|
| WEIGHT | < 8 OUNCES (203 GRAMS) |
| DIMENSIONS | 3.54L (89.9L) x 2.25W (57.2W) x 1.44H (36.6H) |

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

USB HV DRIVER

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

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 or Windows® 7 operating system. Software allows for one unit per Computer. Dynamic Link Library and Labview Library are available.

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

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PROGRAMMING

