USB SERIES
Powered Desktop High Voltage Power Supplies

MODEL	OUTPUT VOLTAGE	MAXIMUM[1] OUTPUT CURRENT	RIPPLE [2] FULL LOAD P-P
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%

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 proide 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

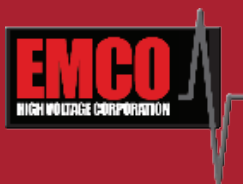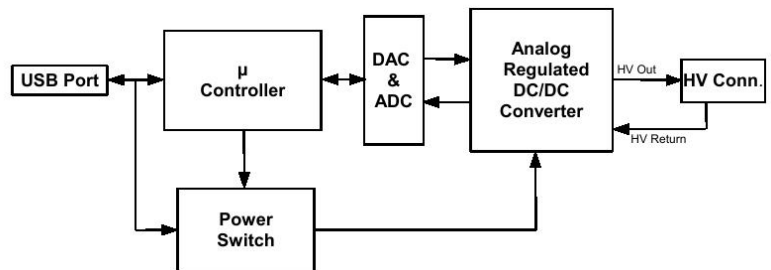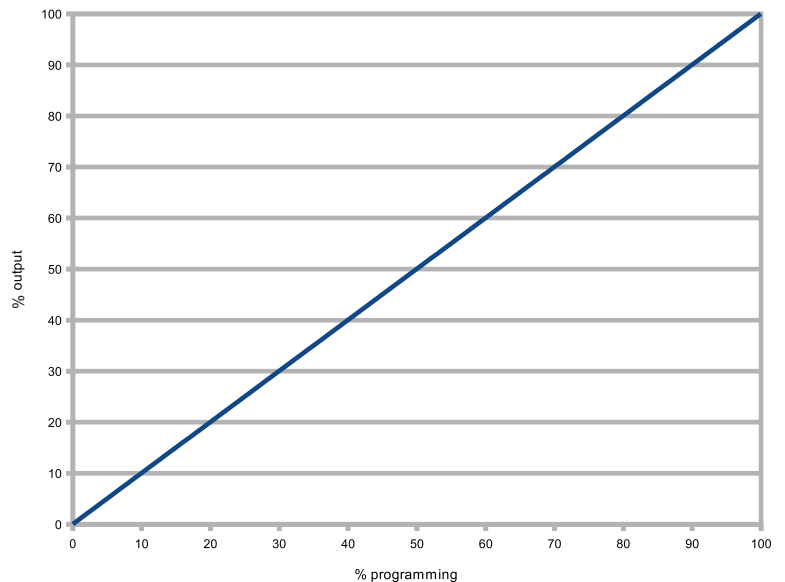RoHS 'R' suffix denotes the product is designed to meet RoHS requirements   I.E. USB20PR

Output vs. Programming
USBhv series

μ Controller — DAC & ADC — Analog Regulated DC/DC Converter — HV Conn. — USB Port — Power Switch

European Stocking Distributor:
Condatas AG
phone: +41 44 730 33 53
**e-mail: sales@condatas.com**
www.condatas.com

USB02 to USB20

LED is illuminated when the high voltage is enabled.

USB CONNECTOR TYPE B

USB 2.0 TYPE A to B CABLE SUPPLIED

MHV CONNECTOR (MATE SUPPLIED WITH 36" PIGTAIL)

RG59/U

72" (1,829)

36" NOM (914.4)

RUBBER FEET 4 PLACES
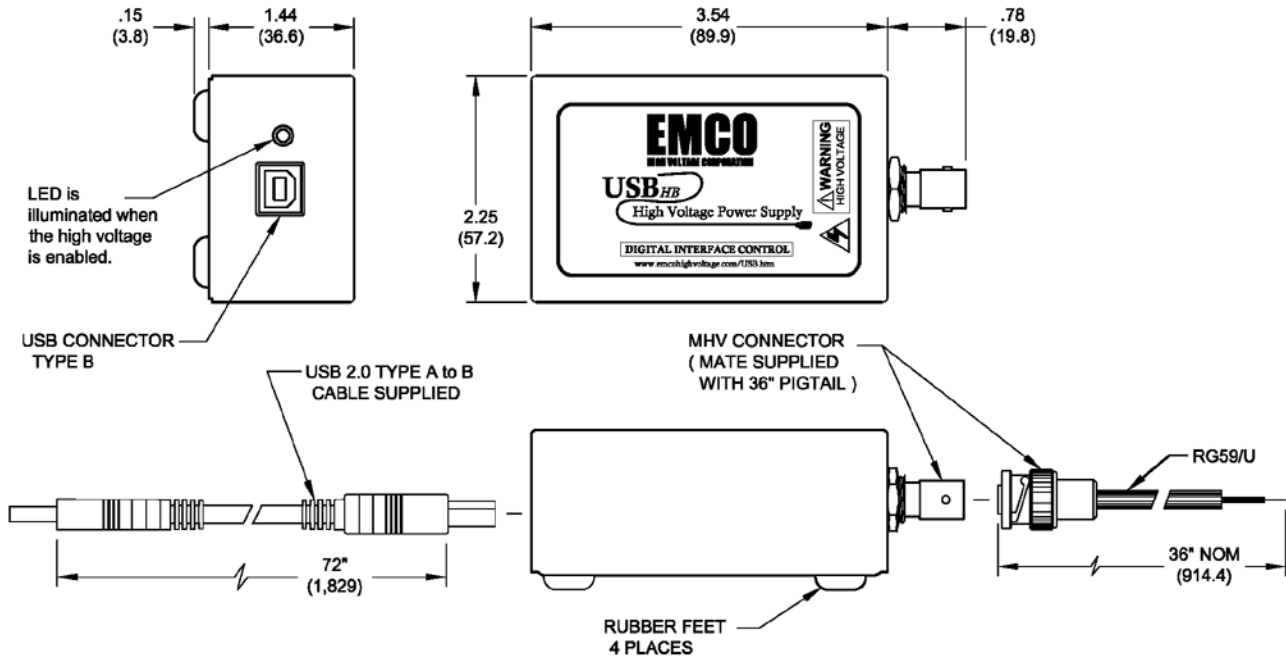
PARAMETER	VALUE
LINEARITY	<0.5% (15% to 100% Vout)*2
	<5% (1% to 15% Vout)*2
STABILITY	<0.005%/hr*2
TEMPCO	<25ppm/°C*2
OPERATING TEMP.	-10° to + 50°C
STORAGE TEMP.	-25° to +95°C

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)

PROGRAMMING
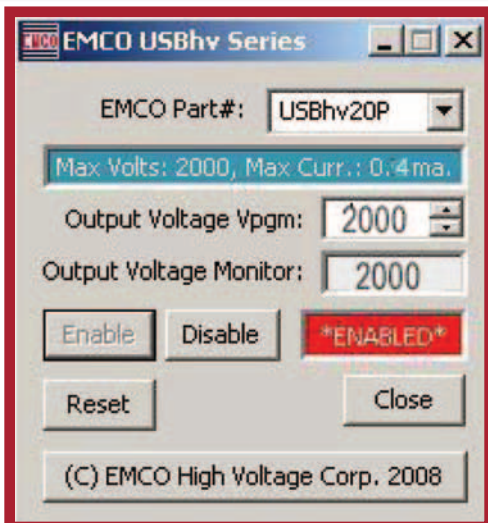
USB HV DRIVER

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 congured 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