

BT SERIES

AC-DC High Voltage Bench-top Power System



The compact, high-voltage BT Series of AC-DC bench-top high voltage power systems with adjustable output voltage offers stand-alone and remote operation modes. For stand-alone operation, the power system is fitted with front panel controls. For remote operation, it can be configured with analog controls or digital controls such as a serial interface supporting a RS232/RS485 serial port.

The BT Series houses a high-voltage power supply from UltraVolt's line of microsize/micropower products.

- Configurable from 0 to 100V through 0 to 6kV
- 100mW to 6W of output power
- Universal 85-264VAC input
- Bench-top configuration
- Single positive or negative output
- A wide range of outputs
- Current and/or voltage monitoring
- Available in either analog or digital versions
- Protection against overload, short circuit and arc

PARAMETERS	SPECIFICATIONS
Input voltage	Universal 85-264 VAC
ON/OFF controls	Switch on rear panel
Output voltage	0 to 100V through 0 to 6kV, depending on model
Output power	0 to 100mW through 0 to 6W, depending on model
Polarity	Positive or negative, depending on model
Load voltage regulation	$\pm 0.01\%$ of full output voltage for no load to full load
Max. output current	Limited to 110% of nominal current
Load voltage regulation	$\pm 0.01\%$ of full output voltage for no load to full load
Line voltage regulation	$\pm 0.01\%$ of full output voltage over specified input voltage range
Temperature coefficient	100ppm/ $^{\circ}$ C or better, depending on model
Safeguards	Screw plug for grounding on rear panel

PARAMETERS	LOCAL MODE MONITORING	REMOTE MODE SPECIFICATIONS	
		DIGITAL VERSION	ANALOG VERSION
Local / remote mode High Voltage ON/OFF Voltage setting	via front panel controls	<ul style="list-style-type: none"> • via RS 232 	via analog signals on SUBD9 connector on rear panel

PARAMETERS	LOCAL MODE MONITORING	REMOTE MODE SPECIFICATIONS	
		DIGITAL VERSION	ANALOG VERSION
Output voltage monitoring Output current monitoring (only available with some models)	on LCD display on front panel	<ul style="list-style-type: none"> • via RS 232 	via analog signals on SUBD9 connector on rear panel

Specifications subject to change without notice.

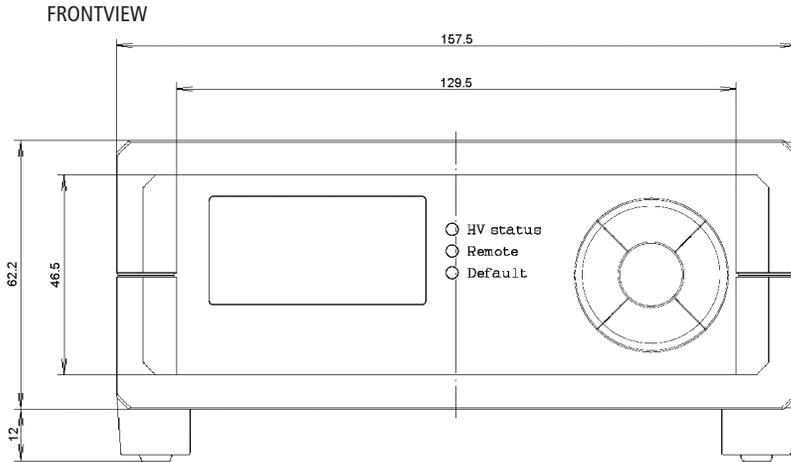


Making High Voltage Easier!®

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AC-DC High Voltage Bench-top Power System



CONSTRUCTION

High quality ABS material
Insulation: fully potted in an epoxy resin

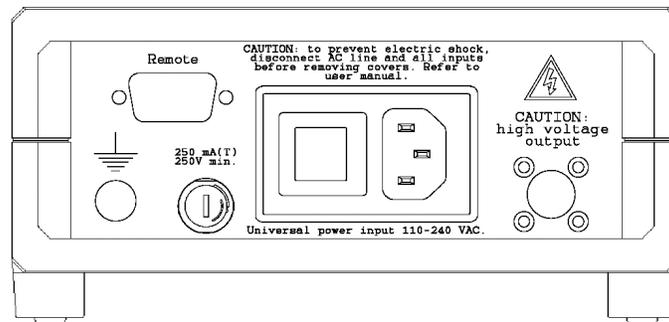
SIZE

Dimensions:
7.83 L x 6.2 W x 2.9 H in (199.0 L x 157.5 W x 62.2 H mm)
With feet extended - rises 10°, height of entire unit with feet is 4.0in (101.6mm)

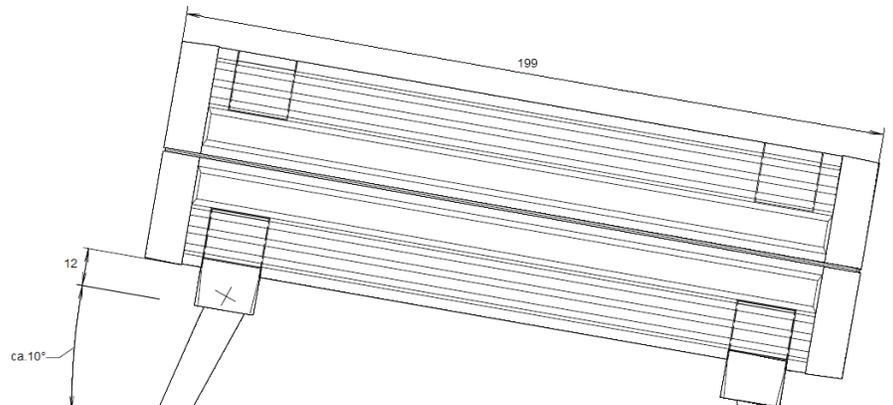
NOTES

IEC 320 type AC connector fuse (500mA) on rear panel
Secured HV BNC connector on rear panel
For further electrical specifications, please refer to the corresponding microsize product data sheet that will be housed in the BT Series box.

BACKVIEW



SIDEVIEW



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