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	$\pm0.01\%$ 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/°C or better, depending on model
Safeguards	Screw plug for grounding on rear panel

PARAMETERS	LOCAL MODE MONITORING	REMOTE MODE SPECIFICATIONS	
Local / remote mode High Voltage ON/OFF Voltage setting	via front panel controls	DIGITAL VERSION	ANALOG VERSION
		• via RS 232	via analog signals on SUBD9 connector on rear panel

PARAMETERS	LOCAL MODE MONITORING	REMOTE MODE SPECIFICATIONS	
Output voltage monitoring Output current monitoring (only available with some models)	on LCD display on front panel	DIGITAL VERSION	ANALOG VERSION
		• via RS 232	via analog signals on SUBD9 connector on rear panel

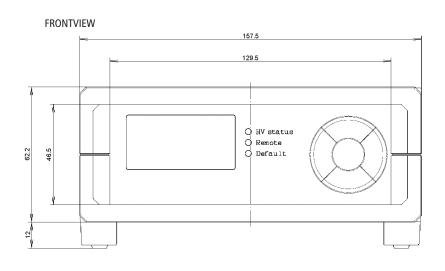
Specifications subject to change without notice.



Making High Voltage Easier!®



BT SERIES AC-DC High Voltage Bench-top Power System



CONSTRUCTION

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

SIZE

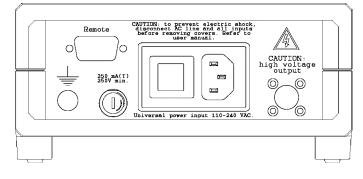
Dimensions:

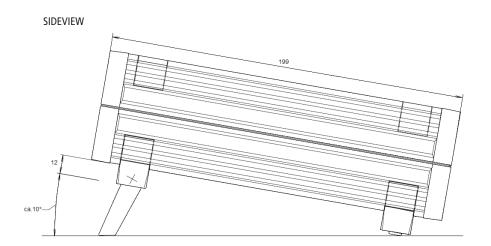
7.83 L x 6.2 W x 2.9 H in (199.0 L x 157.5 W x 62.2 H mm) With feet extended - rises 10°, height of entire unit with feet is 4.0in (101.6mm)

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.





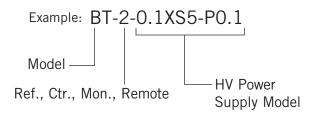




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	I/O CONNECTIONS ON REMOTE CONNECTORS				
DIGITAL RS-232 SUBD9 (ACCORDING TO STANDARD EIA232 DATA COMMUNICATION EQUIPMENT (DCE) STANDARD)		ANALOG REMOTE SUBD9			
	Data exchange:	1. NC		Digital ground :	1. D_GND
SOCKET L	(transmit data)	2. TX	SOCKET L	Inhibition input :	2. HV_ON/OFF
DB9 FEMALE	(receive data)	3. RX	DB9 FEMALE	Current monitoring :	3. HVM_C
SH I		4. NC		Voltage monitoring :	4. HVM_V
	Flow Control: (clear to send) (request to send)	5. GND		Reference :	5. REF
		6. NC		Remote mode :	6. LOCAL/DIST
4+0 $0+8$		7. CTS			7. NC
		8. RTS		Analog ground :	8. A_GND
,to		9. NC	, y to	Voltage control input :	9. HVC_V
	Shielding:	SH. Shield		Shielding:	SH. Shield

ORDERING INFORMATION		
Model	Series name	BT
Input	85-264VAC	(Standard)
Reference, Control,	2.5 VDC	2
Monitoring	4 VDC	4
(valid only for the analog version)	5 VDC	5
	10 VDC	10
Remote interface (valid only for the digital version)	RS232	RS
HV Power Supply Model	Configurable with microsize/micropower product line (XS, US, V, M, & D Series)	See product datasheets for part numbers





Non-RoHS compliant units are available. Please contact the **COMPLIANT** factory for more information.



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