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LPx

Compact High Voltage Sources

Description

The LPx series of High Voltage Sources provide up to 80kV at a maximum of 350W. Packaged in a compact desktop case the LPx range are built with front panel control and a 4 digit LCD screen for both voltage and current. CAN & RS232 interfaces are provided as standard. Analogue, IEEE 488.2 and Ethernet Interfaces are optionally available if required. These units utilise patented resonance mode techniques to achieve very high efficiencies. The LPx series are ideal for capacitor charging as they exhibit excellent repetition accuracies at high charge frequencies. The output is provided via a 3 metre shielded HV cable. Every unit in the range is operated from a wide input 85 to 264Vac, 50/60Hz input with built in power factor correction. If a standard unit is not suitable then different voltage and current outputs are available on request. Similarly for OEM applications blank front panels and different case sizes can be specified.



- Optional Ethernet and analogue interfaces
- RS232 and CAN interface as standard
- High voltages between 1kV to 80kV
- Very high efficiencies of up to 85%
- OEM versions on request
- Compact benchtop case

Selection Table

Part Number	Maximum Power	Output Voltage	Output Current	Dimensions (Width x Height x Depth)
LPx 10 357	350W	0 - 1kV	0 - 350 mA	254 x 81 x 254mm
LPx 20 177	350W	0 - 2kV	0 - 175 mA	254 x 81 x 254mm
LPx 30 127	350W	0 - 3kV	0 - 120 mA	254 x 81 x 254mm
LPx 50 706	350W	0 - 5kV	0 - 70 mA	254 x 81 x 254mm
LPx 80 456	350W	0 - 8kV	0 - 45 mA	254 x 81 x 254mm
LPx 100 356	350W	0 - 10kV	0 - 35 mA	254 x 81 x 254mm
LPx 150 236	345W	0 - 15kV	0 - 23 mA	254 x 81 x 254mm
LPx 200 186	350W	0 - 20kV	0 - 18 mA	254 x 81 x 254mm
LPx 250 146	350W	0 - 25kV	0 - 14 mA	254 x 81 x 254mm
LPx 300 126	350W	0 - 30kV	0 - 12 mA	254 x 81 x 254mm
LPx 400 095	350W	0 - 40kV	0 - 9 mA	254 x 81 x 254mm
LPx 500 075	350W	0 - 50kV	0 - 7 mA	254 x 106 x 254mm
LPx 600 065	350W	0 - 60kV	0 - 6 mA	254 x 106 x 254mm
LPx 700 055	350W	0 - 70kV	0 - 5 mA	254 x 127 x 254mm
LPx 800 045	320W	0 - 80kV	0 - 4 mA	254 x 127 x 254mm

Replace x in part number with P for positive, N for negative output polarity
 Different output ranges and application/user specific options are possible. Please contact ET to discuss your requirements.



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Technical Data

Supply Voltage.....	85 - 264VAC (50/60Hz) with PFC
Efficiency.....	up to 85%
Stability voltage.....	0.02% ($0 = I_{out} = I_{NOM}$ and $?V_{in}$)
Stability current.....	0.2% ($R_{Load\ min} = R_{Load} < \text{no load and } ?V_{in}$)
Ripple & noise.....	$< 0.2\% \times V_{NOM}$
Temperature coefficient.....	$< 2 \times 10^{-4}/K$
Remote control.....	CAN and RS232 interface (opt. IEEE488.2, Ethernet and analogue interfaces)
Polarity.....	Factory fixed to positive or negative.
Protection.....	OVP, short circuit, over temperature, overload
Dimensions (= 40kV).....	254 x 81 x 254mm (W x H x D)
Dimensions (40kV = $V_{NOM} = 60kV$).....	254 x 106 x 254mm (W x H x D)
Dimensions (60kV = $V_{NOM} = 80kV$).....	254 x 127 x 254mm (W x H x D)

Options Table

Code	Description
/P.....	Positive output polarity (Factory fixed)
/N.....	Negative output polarity (Factory fixed)
/LT.....	IEEE 488.2 interface, listener and talker
/ATI-5.....	0 - 5VDC analogue interface
/ETH.....	Ethernet interface
/ATE.....	Built without front panel control and display. Analogue interface provided as standard

LPx

Compact High Voltage Power Supply For Capacitor Charging

