made for experts

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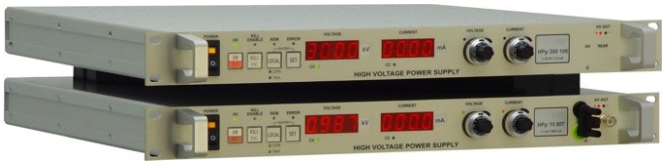
LPCx

High Voltage DC Sources

Description

The LPCx series of High Voltage Sources are specifically built for capacitor charging applications. These units are built into 19" racks and provide outputs of up to 30kV and up to 3kW as standard. A separate summary is available for a version of the LPCx which provides up to 80kV at 350W in a compact desktop case. The 19" range are built with front panel control and 4 digit LED displays for both voltage and current. CAN & USB 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 LPCx series are ideal for capacitor charging as they exhibit excellent repetition accuracies at high charge frequencies. If a standard unit is not suitable then different voltage and current outputs are available on request. For ATE applications programmable versions without front panel control are also available.



- Extraordinary control specifications for output V and I
- High voltages up to 30kV. Output power up to 3kW
- USB and CAN interface as standard
- Patented resonance mode technique
- Very high efficiencies of up to 95%

Technical Data

Input voltage (300W/800W)	85 - 264VAC, 50/60Hz with PFC
Input voltage (1.5kW/3kW)	110VAC or 230VAC (option 85 - 264VAC, 50/60Hz with PFC)
Efficiency	up to 95%
Stability voltage	0.01% ($0 \le I_{out} \le I_{NOM}$ and ΔV_{in})
Stability current	0.2% ($R_{Load\ min} \le R_{Load}$ < no load and ΔV_{in})
Ripple & noise	If $P_{OUT} \leqslant$ 800W then < $1 \times 10^{-4} V_{OMAX}$ or if P_{OUT} >800W then < $2 \times 10^{-3} V_{OMAX}$
Temperature coefficient	< 2×10^{-4}/K
Remote control	CAN and USB interface, (opt. Ethernet, IEEE488.2, and isolated analogue)
Polarity	Factory fixed to positive or negative
Protection	OVP, short circuit, temperature, overload
Casing	19" rack
Accuracy voltage	± (0.05% V_{OUT} + 0.02% V_{OUT} max + 1 digit)
Accuracy current	± (0.05% V_{OUT} + 0.02% V_{OUT} max + 1 digit)

Options Table

Code	Description
/P	Positive output polarity (Factory fixed)
/N	Negative output polarity (Factory fixed)
/LT	IEEE 488.2 interface, listener and talker
/ETH	Ethernet interface with listener and talker functions (300W units only)
/ATI-5	Isolated 0 - 5V DC analogue interface
/WIPFC	Input voltage 85 - 264VAC & PFC, 50/60Hz with PFC for 1.5kW to 3kW units
/EPU	Polarity switchable with TTL (units up to 5kV)
/AIE	Analogue & IEEE interface

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Selection Table

Part Number	Maximum Power	Output Voltage	Output Current	Dimensions (Width x Height x Depth)
LPCx 10 307	300W	0 - 1kV	0 - 300 mA	19" x 1U x 420mm
LPCx 20 157	300W	0 - 2kV	0 - 150 mA	19" x 1U x 420mm
LPCx 30 107	300W	0 - 3kV	0 - 100 mA	19" x 1U x 420mm
LPCx 40 756	300W	0 - 4kV	0 - 75 mA	19" x 1U x 420mm
LPCx 60 506	300W	0 - 6kV	0 - 50 mA	19" x 1U x 420mm
LPCx 80 356	300W	0 - 8kV	0 - 35 mA	19" x 1U x 420mm
LPCx 120 256	300W	0 - 12kV	0 - 25 mA	19" x 1U x 420mm
LPCx 150 206	300W	0 - 15kV	0 - 20 mA	19" x 1U x 420mm
LPCx 200 156	300W	0 - 20kV	0 - 15 mA	19" x 1U x 420mm
LPCx 300 106	300W	0 - 30kV	0 - 10 mA	19" x 1U x 420mm
LPCx 10 807	800W	0 - 1kV	0 - 800 mA	19" x 1U x 420mm
LPCx 20 407	800W	0 - 2kV	0 - 400 mA	19" x 1U x 420mm
LPCx 30 257	800W	0 - 3kV	0 - 250 mA	19" x 1U x 420mm
LPCx 40 207	800W	0 - 4kV	0 - 200 mA	19" x 1U x 420mm
LPCx 60 137	800W	0 - 6kV	0 - 130 mA	19" x 1U x 420mm
LPCx 80 107	800W	0 - 8kV	0 - 100 mA	19" x 1U x 420mm
LPCx 120 656	800W	0 - 12kV	0 - 65 mA	19" x 1U x 420mm
LPCx 150 506	800W	0 - 15kV	0 - 50 mA	19" x 1U x 420mm
LPCx 10 158	1500W	0 - 1kV	0 - 1500 mA	19" x 3U x 420mm
LPCx 20 757	1500W	0 - 2kV	0 - 750 mA	19" x 3U x 420mm
LPCx 30 507	1500W	0 - 3kV	0 - 500 mA	19" x 3U x 420mm
LPCx 40 357	1500W	0 - 4kV	0 - 350 mA	19" x 3U x 420mm
LPCx 80 187	1500W	0 - 8kV	0 - 180 mA	19" x 3U x 420mm
LPCx 120 127	1500W	0 - 12kV	0 - 120 mA	19" x 3U x 420mm
LPCx 150 107	1500W	0 - 15kV	0 - 100 mA	19" x 3U x 420mm
LPCx 10 308	3000W	0 - 1kV	0 - 3000 mA	19" x 4U x 420mm
LPCx 20 158	3000W	0 - 2kV	0 - 1500 mA	19" x 4U x 420mm
LPCx 30 108	3000W	0 - 3kV	0 - 1000 mA	19" x 4U x 420mm
LPCx 40 757	3000W	0 - 4kV	0 - 750 mA	19" x 4U x 420mm
LPCx 80 357	3000W	0 - 8kV	0 - 350 mA	19" x 4U x 420mm
LPCx 120 257	3000W	0 - 12kV	0 - 250 mA	19" x 4U x 420mm
LPCx 150 207	3000W	0 - 15kV	0 - 200 mA	19" x 4U x 420mm

Replace x in part number with P for positive or N for negative output polarity

Different output ranges and application/user specific options are possible.
Please contact ET to discuss your requirements.