

HTP-LPDX

COMPACT HIGH VOLTAGE CAPACITOR CHARGER



POSITIVE PROBLEM SOLVING **+ =**

The HTP-LPDx series of High Voltage Sources provide up to 70kV at a maximum of 350W. CAN & USB interfaces are provided as standard.

Analogue, RS-232, IEEE 488.2 and Ethernet Interfaces are optionally available if required. Packaged in a compact desktop case the HTP-LPDx range are built with front panel control and a 4 digit LCD screen for both voltage and current. These units utilise patented resonance mode techniques to achieve very high efficiencies. The HTP-LPDx series are ideal for capacitor charging as they exhibit excellent repetition accuracies at high charge frequencies.

- + High Voltages Between 1kV to 70kV
- + USB and CAN Interface as Standard
- + Optional Interfaces Available
- + OEM Versions on Request
- + Efficiencies of up to 85%
- + Compact Benchtop Case

HTP-LPDX

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FURTHER DETAILS

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.

TECHNICAL DATA

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Supply Voltage	85 - 264VAC [50/60Hz] with PFC
Efficiency	up to 85%
Stability Voltage	0.02% ($0 \leq I_{OUT} \leq I_{NOM}$ and ΔV_{IN})
Stability Current	0.2% ($R_{LOADMIN} \leq R_{LOAD} < \text{no load and } \Delta V_{IN}$)
Ripple & Noise	$< 0.2\% \times V_{NOM}$
Temperature Coefficient	$< 2 \times 10^{-4}/K$
Remote Control	USB & CAN interface (opt. analogue, RS-232, IEEE488.2 and Ethernet)
Polarity	Factory fixed to positive or negative
Protection	OVP, short circuit, over temperature, overload
Dimensions	254 × 107 × 280mm [W × H × D]
Option /KPD Dimensions ($V_{NOM} \leq 30kV$)	254 × 81 × 254mm [W × H × D]
Option /KPD Dimensions ($V_{NOM} \geq 40kV$)	254 × 106 × 254mm [W × H × D]

SELECTION TABLE

Part Number	Max. Power	Output Voltage Range	Output Current Range	Dimensions (W × H × D)
HTP-LPDx 10 357 y	350W	0 - 1kV	0 - 350mA	254 × 107 × 280mm
HTP-LPDx 20 177 y	350W	0 - 2kV	0 - 175mA	254 × 107 × 280mm
HTP-LPDx 30 127 y	350W	0 - 3kV	0 - 120mA	254 × 107 × 280mm
HTP-LPDx 50 706 y	350W	0 - 5kV	0 - 70mA	254 × 107 × 280mm
HTP-LPDx 80 456 y	350W	0 - 8kV	0 - 45mA	254 × 107 × 280mm
HTP-LPDx 100 356 y	350W	0 - 10kV	0 - 35mA	254 × 107 × 280mm
HTP-LPDx 150 236 y	345W	0 - 15kV	0 - 23mA	254 × 107 × 280mm
HTP-LPDx 200 186 y	350W	0 - 20kV	0 - 18mA	254 × 107 × 280mm
HTP-LPDx 250 146 y	350W	0 - 25kV	0 - 14mA	254 × 107 × 280mm
HTP-LPDx 300 126 y	350W	0 - 30kV	0 - 12mA	254 × 107 × 280mm
HTP-LPDx 400 905 y	350W	0 - 40kV	0 - 9mA	254 × 107 × 280mm
HTP-LPDx 500 705 y	350W	0 - 50kV	0 - 7mA	254 × 107 × 280mm
HTP-LPDx 600 605 y	350W	0 - 60kV	0 - 6mA	254 × 107 × 280mm
HTP-LPDx 700 505 y	350W	0 - 70kV	0 - 5mA	254 × 107 × 280mm

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

OPTIONS

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 (replaces USB or CAN, please specify)
/RS232	RS-232 interface
/AIO	Analogue interface
/AIE	Analogue and IEEE 488.2 interface
/KPD	Unit built with no front panel controls or display, non isolated 0-5Vdc analogue interface provided as standard for control and measurement

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ETPS Ltd must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ETPS Ltd specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.



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