

# HTP-HPDX

## COMPACT HIGH VOLTAGE SOURCES



POSITIVE PROBLEM SOLVING **+ =**

The HTP-HPDx are a series of programmable high voltage laboratory power supplies in a convenient desktop case. A wide range of V & I outputs are possible up to 70kV & 350W.

Along with front panel control and display the unit is built with CAN and USB interfaces as standard. Versions with blank front panels controlled via analogue signal are also available. Innovative resonance mode techniques enable the units to operate at very high efficiencies. Constant current and constant voltage modes are provided.

- + 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

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## FURTHER DETAILS

Low ripple and noise ensure these units are suitable for the widest range of applications. Typical examples include magnetrons, electrostatics, x-ray, laser & E-beam processing.

Variants are also available with modified regulation suitable for capacitor and pulse loading. These HV supplies are also available in customer specific mechanical forms for medium volume OEM applications.

### 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 $\Delta V_{IN}$ )
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 /GPD Dimensions ( $V_{NOM} \leq 30kV$ )	254 × 81 × 254mm [W × H × D]
Option /GPD 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-HPDx 10 357 y	350W	0 - 1kV	0 - 350mA	254 × 107 × 280mm
HTP-HPDx 20 177 y	350W	0 - 2kV	0 - 175mA	254 × 107 × 280mm
HTP-HPDx 30 127 y	350W	0 - 3kV	0 - 120mA	254 × 107 × 280mm
HTP-HPDx 50 706 y	350W	0 - 5kV	0 - 70mA	254 × 107 × 280mm
HTP-HPDx 80 456 y	350W	0 - 8kV	0 - 45mA	254 × 107 × 280mm
HTP-HPDx 100 356 y	350W	0 - 10kV	0 - 35mA	254 × 107 × 280mm
HTP-HPDx 150 236 y	345W	0 - 15kV	0 - 23mA	254 × 107 × 280mm
HTP-HPDx 200 186 y	350W	0 - 20kV	0 - 18mA	254 × 107 × 280mm
HTP-HPDx 250 146 y	350W	0 - 25kV	0 - 14mA	254 × 107 × 280mm
HTP-HPDx 300 126 y	350W	0 - 30kV	0 - 12mA	254 × 107 × 280mm
HTP-HPDx 400 905 y	350W	0 - 40kV	0 - 9mA	254 × 107 × 280mm
HTP-HPDx 500 705 y	350W	0 - 50kV	0 - 7mA	254 × 107 × 280mm
HTP-HPDx 600 605 y	350W	0 - 60kV	0 - 6mA	254 × 107 × 280mm
HTP-HPDx 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
/LPDx	Unit functions as a capacitor charger, see separate HTP-LPDx datasheet
/GPD	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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Tel: +44 (0) 1246 452909  
Sales: 0800 612 95 75  
sales@etps.co.uk  
www.etps.co.uk

ETPS Ltd  
Unit 14, The Bridge  
Beresford Way, Chesterfield  
S41 9FG



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