

# HTP-DPS

## PRECISION HIGH VOLTAGE MODULES



POSITIVE PROBLEM SOLVING **+ =**

The HTP-DPS product family consists of modules providing outputs up to 6kV at a maximum of 12W. Units are fitted with a TTL signal for changing the output polarity.

As standard the unit is built into a compact metal box with mounting points. This choice of case material along with patented resonance mode operation ensures a low EMI. A 600mm bare ended HV cable is used to provide the output. If preferred an SHV connector can be specified. The HTP-DPS modules can also be built as 3U cassettes with up to 10 units housed in a 19" mainframe.

- + Precision High Voltages of up to 6kV at 12W
- + Can Also be Used in HTP-THQ Desktop Series
- + Available in 3U Cassette or Compact Box
- + High Stability Output Voltage
- + Electronic Polarity Switch
- + Very Low Ripple & Noise

# HTP-DPS

## PRECISION HIGH VOLTAGE MODULES

## FURTHER DETAILS

Each 3U module is fitted with an ID chip to allow automatic detection by an MMC interface card. An analogue interface is provided for control and monitoring.

As standard a SUB-D 9 connector is used for both supply and control voltages. If the cassette option is chosen the module is built with an H15 connector. Hardware settings for voltage and current limits protect the connected unit.

### SELECTION TABLE

Part Number	Maximum Power	Input Voltage	Output Voltage Range	Output Current Range
HTP-DPx 05 106 24 5	5W	24 V	0 - 0.5kV	0 - 10mA
HTP-DPx 10 106 24 5	10W	24 V	0 - 1kV	0 - 10mA
HTP-DPx 15 805 24 5	12W	24 V	0 - 1.5kV	0 - 8mA
HTP-DPx 20 605 24 5	12W	24 V	0 - 2kV	0 - 6mA
HTP-DPx 30 405 24 5	12W	24 V	0 - 3kV	0 - 4mA
HTP-DPx 40 305 24 5	12W	24 V	0 - 4kV	0 - 3mA
HTP-DPx 50 205 24 5	10W	24 V	0 - 5kV	0 - 2mA
HTP-DPx 60 155 24 5	9W	24 V	0 - 6kV	0 - 1.5mA

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

## TECHNICAL DATA

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Stability ( $\Delta V_{IN}$ )	$< 1 \times 10^{-5} \times V_{OMAX}$
Stability No Load ( $\Delta R_{LOAD}$ )	$< 1 \times 10^{-5} \times V_{OMAX}$
Ripple & Noise	Typically $3mV_{P-P}$ (maximum $7mV_{P-P}$ )
Temperature Coefficient	$< 5 \times 10^{-5} / K$
Remote Control	0 - 5Vdc (option 0-10Vdc)
Polarity	Via TTL signal
Arc Tolerance	1 arc per second is controlled
Protection	Overload, short circuit, voltage & current limit
Case	Metal box or 3U cassette
Dimensions (Metal Box)	75 x 185 x 40mm (W x D x H)
Dimensions (Cassette)	3U x 8HP (40.64mm)
Supply Voltage	12VDC (range 11.5 - 15.5V) or 24VDC $\pm$ 5%, 600mm HV bare ended cable (optional SHV connector)

## OPTIONS

CODE	DESCRIPTION
/AI-10	0 - 10 VDC Analogue interface for control and measurement
/SHV	High voltage output with SHV connector
/3U-SHV	Unit built as 3U x 8HP cassette with SHV connector for $\leq 6kV$
/ECH 124	Unit placed in 4 slot mainframe (see below for more information)
/ECH 128	Unit placed in 8 slot mainframe (see below for more information)
/ECH 12A	Unit placed in 10 slot mainframe (see below for more information)

## MAINFRAMES

Part Number	Slots	Power	Interface	Dimensions (W x H x D)
HTP-ECH 124	4 + 1	120W	CAN & USB	$\frac{1}{2}$ 19" x 3U x 350mm
HTP-ECH 128	8 + 1	300W	CAN & USB	19" x 3U x 350mm
HTP-ECH 12A	10 + 1	300W	CAN & USB	19" x 3U x 350mm
Option ETH	Integrated ethernet interface with 32 inputs and 16 outputs			

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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