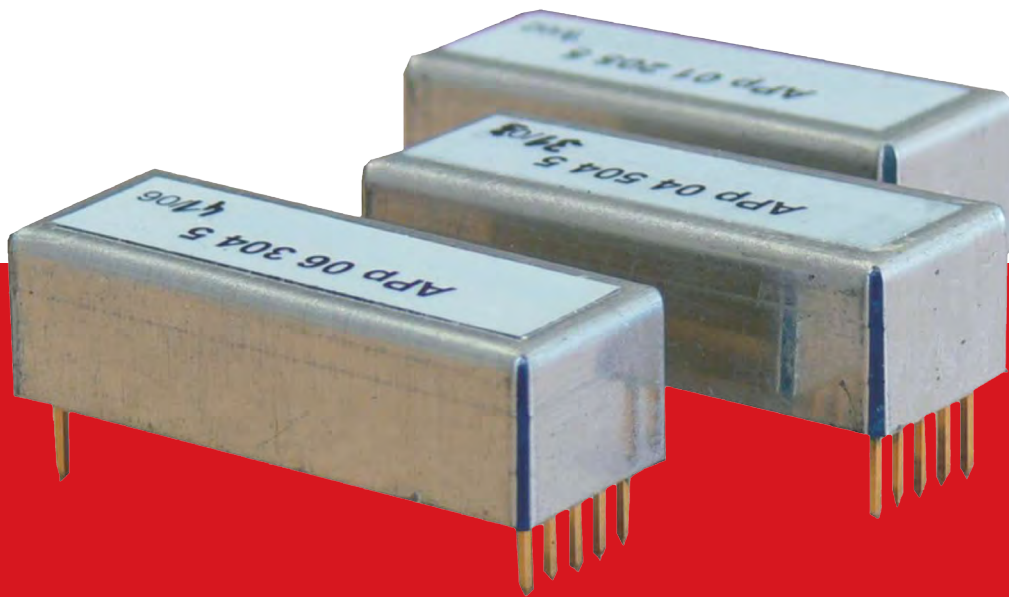


# HTP-APS

## HIGH VOLTAGE PCB MODULES



POSITIVE PROBLEM SOLVING **+ =**

The HTP-APS are a series of modules providing outputs between 200V and 1000V at 2 different power levels. At 500mW the modules operate from an input of 5Vdc.

The 1W versions are supplied from 11½ to 15½Vdc. Depending on the model chosen the maximum output current is between 500µA to 5mA. These DC/DC converters are built into potted steel cases. This construction together with a patented resonance mode principle helps to ensure low electro-magnetic interference. The HTP-APS modules also offer a highly stable output while exhibiting a relatively low ripple and noise level.

- + Ripple & Noise  $<30\text{mV}_{\text{p.p}}$  (Typ.  $<10\text{mV}_{\text{p.p}}$ )
- + Set & Monitor Output Voltage with Inhibit
- + Positive or Negative Output Polarity
- + Stable Output Voltage
- + Up to 1000V at 1W
- + Very Low EMI

# HTP-APS

## HIGH VOLTAGE PCB MODULES

## FURTHER DETAILS

As standard a proportional analogue signal is used to set the output voltage.

If preferred, the modules can be optionally built with a fixed output voltage. A monitor pin is also provided allowing the voltage to be proportionally measured. The inhibit pin enables the output to be switched ON/OFF via high or low signal.

The output polarity is factory fixed. A negative [-ve] or positive [+ve] output is specified on order.

### TECHNICAL DATA

TECHNICAL DATA	
Output Voltage	Up to 1000V
Output Current	Up to 5mA
Stability ( $\Delta V_{IN}$ )	$< 1 \times 10^{-3} \times V_{OMAX}$
Stability ( $\Delta R_{LOAD}$ )	$< 2 \times 10^{-3} \times V_{OMAX}$
Ripple & Noise	$< 30mV_{p-p}$ (Typically $< 10mV_{p-p}$ )
Temperature Coefficient	$< 2 \times 10^{-4}/K$
Polarity	Factory preset to either positive or negative
INHIBIT	TTL High
Case	Potted metal box
Dimensions	15 x 40 x 11mm (W x D x H)
Supply Voltage $V_{IN}$	5VDC $\pm$ 10% VDC or 11.5 - 15.5VDC
Protection	Overload and short circuit

## SELECTION TABLE

Part Number	Maximum Power	Input Voltage	Output Voltage	Output Current
HTP-APx 02 255 5	0.5 W	5Vdc $\pm$ 10%	200V	2.5 mA
HTP-APx 04 125 5	0.5 W	5Vdc $\pm$ 10%	400V	1.2 mA
HTP-APx 06 804 5	0.5 W	5Vdc $\pm$ 10%	600V	0.8 mA
HTP-APx 08 604 5	0.5 W	5Vdc $\pm$ 10%	800V	0.6 mA
HTP-APx 10 504 5	0.5 W	5Vdc $\pm$ 10%	1000V	0.5 mA
HTP-APx 02 505 12	1.0 W	11.5 - 15.5Vdc	200V	5 mA
HTP-APx 04 255 12	1.0 W	11.5 - 15.5Vdc	400V	2.5 mA
HTP-APx 06 165 12	1.0 W	11.5 - 15.5Vdc	600V	1.6 mA
HTP-APx 08 125 12	1.0 W	11.5 - 15.5Vdc	800V	1.2 mA
HTP-APx 10 105 12	1.0 W	11.5 - 15.5Vdc	1000V	1.0 mA

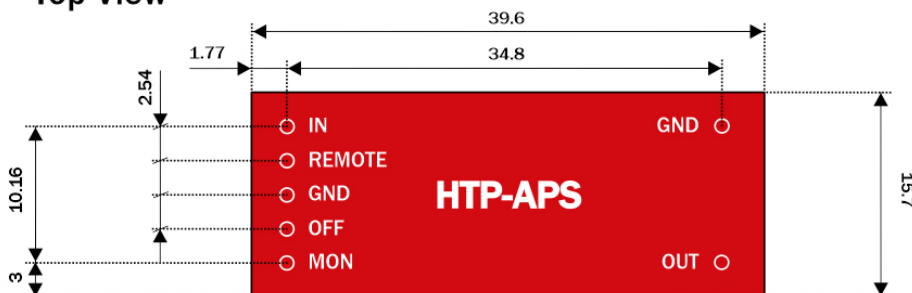
Replace x with N for negative or P for positive output polarity

## OPTIONS

CODE	DESCRIPTION
/P	Positive output polarity [factory fixed]
/N	Negative output polarity [factory fixed]
/R	Built in potentiometer for output
/S	Factory fixed output voltage

## DIMENSIONS

### Top View



Contact Pin Ø:  
0.63 \* 0.63mm

Contact Pin Length:  
2.2mm  $\pm$  0.4mm

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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