



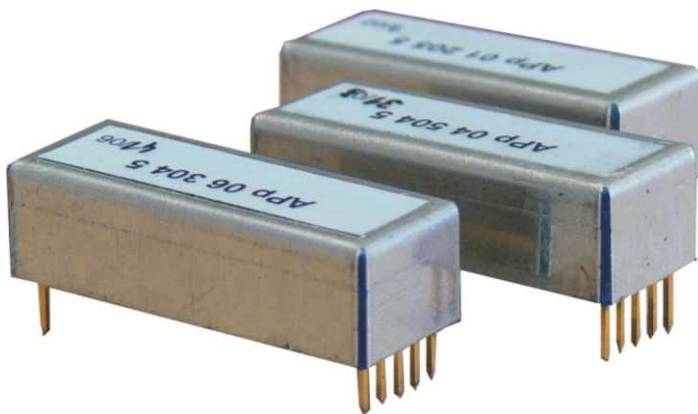
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# APS

# High Voltage PCB Modules

## Description

The APS are a series of high voltage modules providing outputs of between 100V and 600V. There are 2 power levels to choose from. At 200mW the modules operate from an input of 5Vdc. The 600mW versions are supplied from 11½ to 15½Vdc. Depending on the model chosen the maximum output current is between 300µA to 6mA. 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 APS modules also offer a highly stable output while exhibiting a relatively low ripple and noise level. 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.



- Adjustable output voltage with inhibit
- Positive or negative output polarity
- Up to 600V at 600mW
- Ripple & noise <50mV<sub>P-P</sub>
- Stable output voltage
- Very low EMI

## Technical Data

Output voltage.....	Up to 600V
Output current.....	Up to 6mA
Stability ( $\Delta V_{IN}$ ).....	$< 1 \times 10^{-3} \times V_{OMAX}$
Stability ( $\Delta R_{LOAD}$ ).....	$< 2 \times 10^{-3} \times V_{OMAX}$
Ripple & noise.....	$< 50mV_{P-P}$
Temperature coefficient.....	$< 3 \times 10^{-4}/K$
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



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## Selection Table

Part Number	Maximum Power	Input Voltage	Output Voltage	Output Current
APx 01 205 5	0.2 W	5Vdc ± 10%	100 V	2 mA
APx 02 105 5	0.2 W	5Vdc ± 10%	200 V	1 mA
APx 03 604 5	0.2 W	5Vdc ± 10%	300 V	0.6 mA
APx 04 504 5	0.2 W	5Vdc ± 10%	400 V	0.5 mA
APx 05 404 5	0.2 W	5Vdc ± 10%	500 V	0.4 mA
APx 06 304 5	0.2 W	5Vdc ± 10%	600 V	0.3 mA
APx 01 605 12	0.6 W	11.5 - 15.5Vdc	100 V	6 mA
APx 02 305 12	0.6 W	11.5 - 15.5Vdc	200 V	3 mA
APx 03 205 12	0.6 W	11.5 - 15.5Vdc	300 V	2 mA
APx 04 155 12	0.6 W	11.5 - 15.5Vdc	400 V	1.5 mA
APx 05 125 12	0.6 W	11.5 - 15.5Vdc	500 V	1.2 mA
APx 06 105 12	0.6 W	11.5 - 15.5Vdc	600 V	1 mA

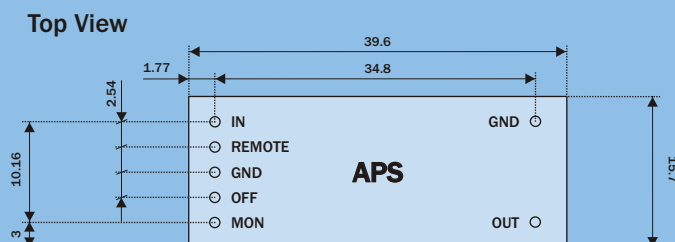
Replace x with N for negative or P for positive output polarity

## Options Table

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

The following sketch shows the approximate dimensions of the APS module and the contact positions.



Contact Pin Ø:  
0.63 \* 0.63mm

Contact Pin Length:  
2.2mm ± 0.4mm