

# APS

## SMALL HIGH VOLTAGE PRINT MODULE FOR PCB MOUNTING

Out: 100 V - 1 kV | 0.5 / 1 W | In: 5V / 12V DC | Ripple: typ. < 10 mV<sub>p-p</sub>



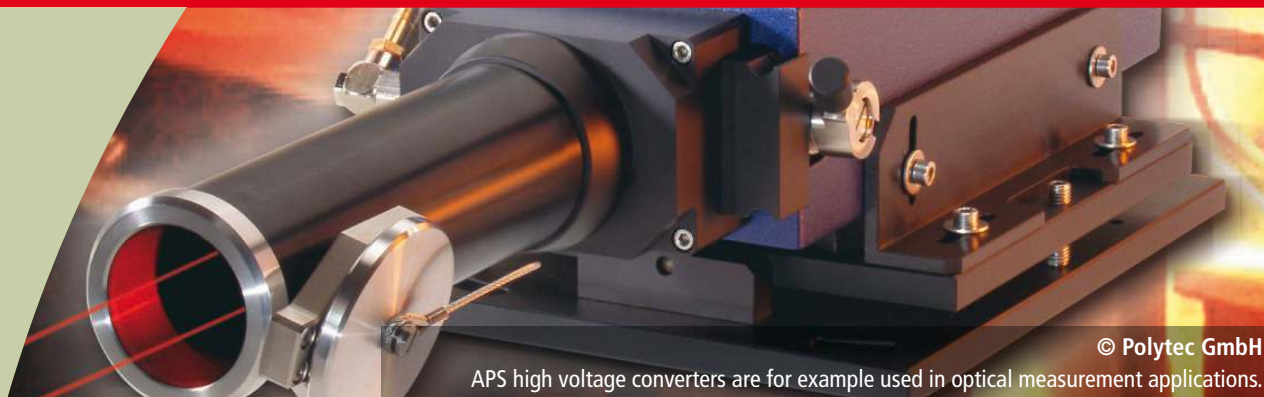
DC/DC



- ▶ patented resonance converter technology
- ▶ controlled by analog set voltage
- ▶ analog monitor voltage
- ▶ low ripple and noise, low EMI
- ▶ internal reference voltage
- ▶ RoHS compliant
- ▶ customized versions on request

The APS is a very small DC/DC converter which can be mounted and soldered on PCBs. The output voltage is controllable with either a potentiometer or an analog control voltage.

The patented resonance converter technology and moulded metal box shielding guarantee lowest electromagnetic interference and low ripple and noise of the output voltage.



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APS high voltage converters are for example used in optical measurement applications.

**SPECIFICATIONS / SPEZIFIKATION**

	APS 0.5 W	APS 1 W
<b>Polarity</b>	factory fixed, positive or negative	
<b>Ripple and noise</b> [f > 10 Hz]	typ. < 10 mV <sub>p,p</sub>	
<b>Stability</b> - $[\Delta V_{out} / \Delta V_{in}]$	< $1 \cdot 10^{-3} \cdot V_{nom}$	
<b>Stability</b> - $[\Delta V_{out} / \Delta R_{load}]$	< $2 \cdot 10^{-3} \cdot V_{nom}$	
<b>Temperatur coefficient</b>	< $2 \cdot 10^{-4} / K$	
<b>Supply voltage</b>	4.5 - 5.5 V	11.5 - 15.5 V
<b>Set / monitor voltage</b>	0 - 2.5 V	0 - 5 V
<b>Protection</b>	overload and short circuit protected	
<b>HV connector</b>	pin	
<b>Case</b>	metal box, moulded	
<b>Dimensions - L/W/H</b>	40/16/11 mm	

**CONFIGURATIONS / KONFIGURATIONEN**

APS 0.5 W	V <sub>nom</sub>	I <sub>nom</sub>	APS 1 W	V <sub>nom</sub>	I <sub>nom</sub>
APx 02 255 5	200 V	2.5 mA	APx 02 505 12	200 V	5 mA
APx 04 125 5	400 V	1.2 mA	APx 04 255 12	400 V	2.5 mA
APx 06 804 5	600 V	0.8 mA	APx 06 165 12	600 V	1.6 mA
APx 08 604 5	800 V	0.6 mA	APx 08 125 12	800 V	1.2 mA
APx 10 504 5	1 kV	0.5 mA	APx 10 105 12	1 kV	1 mA

**ORDER & OPTIONS / BESTELLINFORMATIONEN**

OPTION	ORDER INFO	EXAMPLE
<b>POLARITY</b>	positive: x = p, negative: x = n	APp 02 255 5



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