

APS

SMALL HIGH VOLTAGE PRINT MODULE FOR PCB MOUNTING

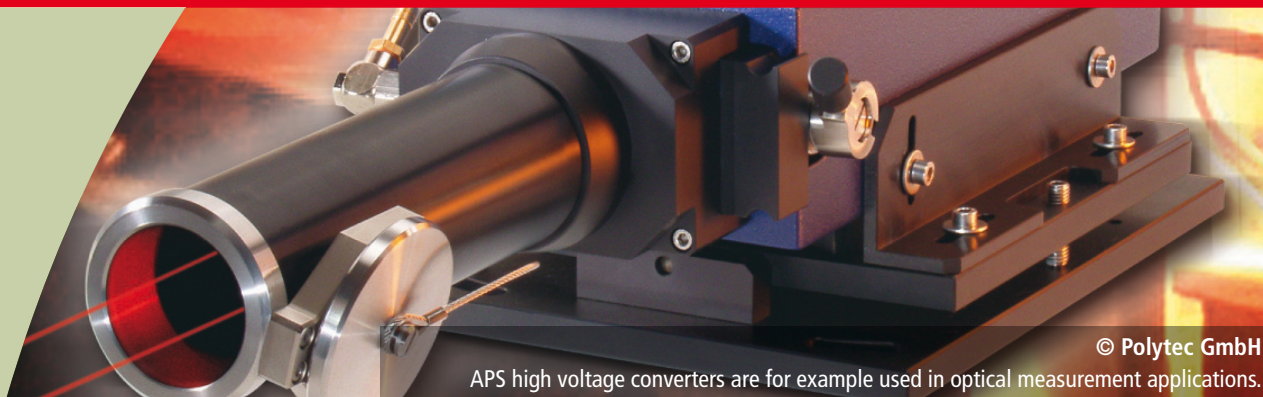
Out: 100 V - 1 kV | 0.5 / 1 W | In: 5V / 12V DC | Ripple: typ. < 10 mV_{p-p}



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

CONFIGURATIONS / KONFIGURATIONEN

APS 0.5 W	V _{nom}	I _{nom}	APS 1 W	V _{nom}	I _{nom}
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
POLARITY	positive: x = p, negative: x = n	APp 02 255 5



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iseg is a manufacturer of very precise and stable High Voltage Power Supplies with focus on physics and industrial applications. The product portfolio includes AC/DC, DC/DC and modular High Voltage systems. The company was founded in 1995. Continuous growth and innovation strengthened the company's market position. iseg is well known for the development of outstanding custom specific solutions for various special applications.