

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}

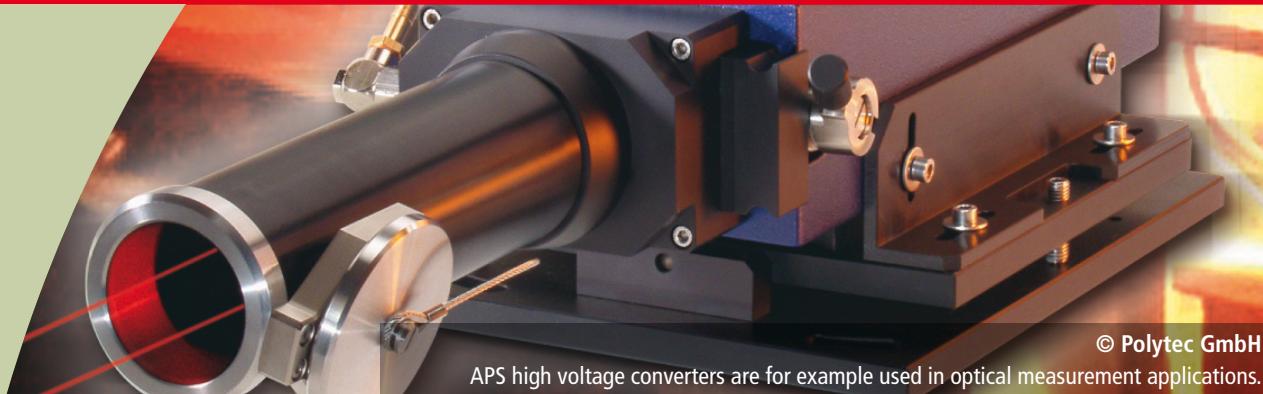
- ▶ patented resonance converter technology
- ▶ controlled by analog set voltage
- ▶ analog monitor voltage
- ▶ low ripple and noise, low EMI
- ▶ internal reference voltage
- ▶ RoHS compliant
- ▶ customized versions on request

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.

DC/DC
AIO

CUSTOM



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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 • 10 ⁻³ • V _{nom} | |
| Stability - [$\Delta V_{out} / \Delta R_{load}$] | < 2 • 10 ⁻³ • V _{nom} | |
| Temperatur coefficient | < 2 • 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.

