

BPS

HIGH VOLTAGE PRINT MODULE FOR PCB MOUNTING UP TO 4 WATT

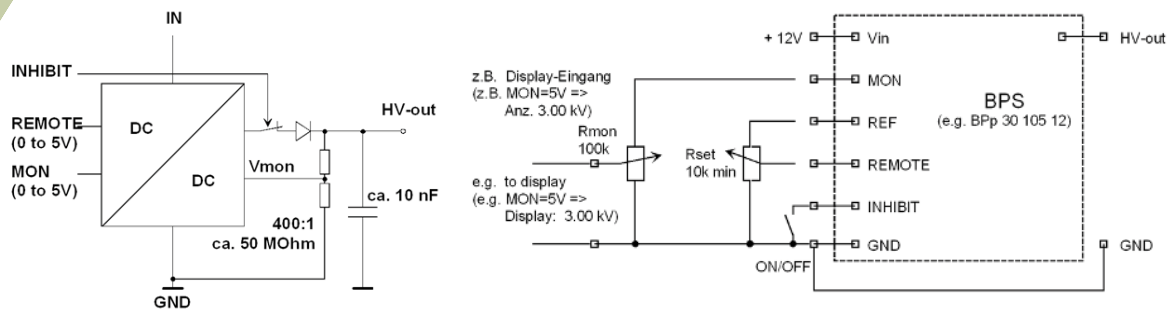
Out: 300 V - 6 kV | 1 / 3 / 4 W | In: 5 / 12 V DC | Ripple: typ. < 5 - 30 mV_{p-p}



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

The BPS is a 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.



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Schematic circuitry of BPS 3W module series

SPECIFICATIONS / SPEZIFIKATION			
	BPS 1 W	BPS 3 W	BPS 4 W
Ripple and noise [f > 10 Hz]	typ. < 15 mV _{P-P}	typ. < 30 mV _{P-P}	typ. < 5 - 20 mV _{P-P}
Stability - [ΔV _{out} / ΔV _{in}]	< 5 • 10 ⁻⁴ • V _{nom}	< 5 • 10 ⁻⁴ • V _{nom}	< 2 • 10 ⁻⁴ • V _{nom}
Stability - [ΔV _{out} / ΔR _{load}]	< 2 • 10 ⁻³ • V _{nom}	< 2 • 10 ⁻³ • V _{nom}	< 5 • 10 ⁻⁴ • V _{nom}
Temperatur coefficient	< 1 • 10 ⁻⁴ / K		
Supply voltage	4.5 - 5.5 V	11.5 - 15.5 V	11.4 - 12.6 V
Set / monitor voltage	0 - 2.5 V	0 - 5 V	0 - 5 V
Polarity	factory fixed, positive or negative		
Protection	overload and short circuit protected		
Case metal	box, moulded		
HV connector	pin		
Dimensions - L/W/H	40/40/18 mm	40/40/18 mm	50 - 55/40/17 mm

CONFIGURATIONS / KONFIGURATIONEN

BPS 1 W	V _{nom}	I _{nom}	BPS 3 W	V _{nom}	I _{nom}	BPS 4 W	V _{nom}	I _{nom}	RIPPLE AND NOISE	LENGTH
BPx 05 205 5	500 V	2 mA	BPx 03 106 12	300 V	10 mA	BPx 05 805 12	500 V	8 mA	typ. < 20 mV _{P-P}	50 mm
BPx 10 105 5	1 kV	1 mA	BPx 05 605 12	500 V	6 mA	BPx 10 405 12	1 kV	4 mA	typ. < 20 mV _{P-P}	50 mm
BPx 15 604 5	1.5 kV	0.6 mA	BPx 10 305 12	1 kV	3 mA	BPx 20 205 12	2 kV	2 mA	typ. < 20 mV _{P-P}	50 mm
BPx 20 504 5	2 kV	0.5 mA	BPx 15 205 12	1.5 kV	2 mA	BPx 30 135 12	3 kV	1.3 mA	typ. < 20 mV _{P-P}	50 mm
BPx 25 404 5	2.5 kV	0.4 mA	BPx 20 155 12	2 kV	1.5 mA	BPx 40 105 12	4 kV	1 mA	typ. < 20 mV _{P-P}	50 mm
BPx 30 304 5	3 kV	0.3 mA	BPx 25 125 12	2.5 kV	1.2 mA	NEW BPx 60 504 12	6 kV	0.5 mA	typ. < 5 mV _{P-P}	55 mm
			BPx 30 105 12	3 kV	1 mA					

ORDER & OPTIONS / BESTELLINFORMATIONEN

OPTION	ORDER INFO	EXAMPLE
Polarity	positive: x = p, negative: x = n	BpN 05 205 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.