

# GPS

## ANALOG CONTROLLABLE AC/DC HIGH VOLTAGE POWER SUPPLIES

Out: 1 kV - 70 kV | 300-800 W | Ripple: best:  $< 1 \cdot 10^{-4} \cdot V_{nom}$



AIO

ARC

CLD

CUSTOM

AC/DC

- ▶ 300-800 W / 1kV - 70 kV versions
- ▶ 19" case / compact box / custom specific
- ▶ best control characteristics
- ▶ analog I/O
- ▶ capacitor charger (option CLD)
- ▶ ARC management (option ARC)
- ▶ very low ripple and noise, very low EMI
- ▶ high efficiency up to 85%

Devices of GPS series are analog controlled AC driven high voltage power supplies with a high power density at best output characteristics. Due to a wide range of customization possibilities, these devices are the perfect choice to match fixed requirements at a very reasonable price.



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GPS AC/DC high voltage supplies in metal box and 19" rack housing

### SPECIFICATIONS / SPEZIFIKATION

	GPS COMPACT 350 W	GPS 300W	GPS 800 W
Polarity		factory fixed, positive or negative	
Ripple and noise [f > 10 Hz]	$< 2 \cdot 10^{-3} \cdot V_{nom}$		$< 1 \cdot 10^{-4} \cdot V_{nom}$ [V <sub>nom</sub> ≤ 8 kV] $< 5 \cdot 10^{-4} \cdot V_{nom}$ [V <sub>nom</sub> > 8 kV]
Stability		0.02 % *	
Voltage regulation [ $\Delta V_{out} / \Delta V_{in}$ ]	0.02 % [V <sub>out</sub> ≥ 5 V]		0.01 % [V <sub>out</sub> ≥ 5 V]
Temperatur coefficient		$< 2 \cdot 10^{-4} / K$	
Supply voltage		85 - 264 VAC with PFC	
Set / monitor voltage		0 - 5 V   opt. 0 - 10 V	
Protection		overload, ARC and short circuit protected, INHIBIT, overvoltage/overtemp protection	
Case	metal box		19" 1U rack mountable
Dimensions (L/W/H)	254/254/81-106 mm		410 mm / 19" / 1U
* for 8h, after 0.5h warmup			

### ORDER & OPTIONS / BESTELLINFORMATIONEN

OPTION	ORDER INFO	EXAMPLE
Polarity	positive: <b>x = p</b> , negative: <b>x = n</b>	GP <b>p</b> 10 307 05
Remote / monitor voltage	0-5 V (standard): <b>y = 05</b> , 0-10 V (optional): <b>y = 10</b>	GPp 10 307 <b>10</b>
Capacitor charger	<b>CLD</b>	
ARC management	<b>ARC</b>	

Note: other product configurations and customizing on request

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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.