

## ANALOG CONTROLLABLE AC/DC HIGH VOLTAGE POWER SUPPLIES ANALOG STEUERBARE AC/DC HOCHSPANNUNGS-NetzGERÄTE

- ▶ 300-800 W / 1kV - 70 kV versions
  - ▶ 19" case / compact box / custom specific
  - ▶ best control characteristics
  - ▶ analog I/O
  - ▶ capacitor charger option (optional CLD)
  - ▶ ARC management (optional ARC)
  - ▶ very low ripple and noise, very low EMI
  - ▶ high efficiency up to 85%
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- ▶ 300-800 W / 1kV - 70 kV Versionen
  - ▶ 19"-Gehäuse / Kompaktgehäuse / kundenspezifisch
  - ▶ hervorragende Regelcharakteristik
  - ▶ Analog-I/O
  - ▶ Kondensatorlader (optional CLD)
  - ▶ ARC-Management (optional ARC)
  - ▶ sehr geringe Restwelligkeit/Rauschen, gute EMV
  - ▶ hoher Wirkungsgrad bis 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.

Geräte der GPS-Serie sind analog gesteuerte, netzgespeiste Hochspannungsversorgungen mit hoher Leistungsdichte und bester Leistungscharakteristik. Durch vielfältige Individualisierungsmöglichkeiten stellen sie die perfekte Möglichkeit dar, alle gegebenen Anforderungen von Anwendungen zu einem günstigen Preis abzudecken.

### SPECIFICATIONS / SPEZIFIKATION

	GPS COMPACT 350 W	GPS 300W	GPS 800 W
<b>Polarity</b>		factory fixed, positive or negative	
<b>Ripple and noise</b> [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]	
<b>Stability</b>		0.02 % *	
<b>Voltage regulation</b> [ $\Delta V_{out} / \Delta V_{in}$ ]	0.02 % [V <sub>out</sub> ≥ 5 V]		0.01 % [V <sub>out</sub> ≥ 5 V]
<b>Temperatur coefficient</b>		$< 2 \cdot 10^{-4} / K$	
<b>Supply voltage</b>		85 - 264 VAC with PFC	
<b>Set / monitor voltage</b>		0 - 5 V   opt. 0 - 10 V	
<b>Protection</b>		overload, ARC and short circuit protected, INHIBIT, overvoltage/overtemp protection	
<b>Case</b>	metal box		19" 1U rack mountable
<b>Dimensions</b> (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
<b>Polarity</b>	positive: <b>x = p</b> , negative: <b>x = n</b>	GP <b>p</b> 10 307 05
<b>Remote / monitor voltage</b>	0-5 V (standard): <b>y = 05</b> , 0-10 V (optional): <b>y = 10</b>	GP <b>p</b> 10 307 <b>10</b>
<b>Capacitor charger</b>	<b>CLD</b>	
<b>ARC management</b>	<b>ARC</b>	

Note: other product configurations and customizing on request

CONFIGURATIONS / KONFIGURATIONEN				
MODEL	V <sub>nom</sub>	I <sub>nom</sub>	L/W/H	HV CONNECTOR
<b>GPS-COMPACT 350 W</b>				
GPx 10 357 y	1 kV	350 mA	254/254/81 mm	GES HB11
GPx 20 177 y	2 kV	175 mA	254/254/81 mm	GES HB11
GPx 30 127 y	3 kV	120 mA	254/254/81 mm	GES HB11
GPx 50 706 y	5 kV	70 mA	254/254/81 mm	GES HB11
GPx 80 456 y	8 kV	45 mA	254/254/81 mm	GES HB11
GPx 100 356 y	10 kV	35 mA	254/254/81 mm	GES HB11
GPx 150 236 y	15 kV	23 mA	254/254/81 mm	GES HB31
GPx 200 186 y	20 kV	18 mA	254/254/81 mm	GES HB31
GPx 300 126 y	30 kV	12 mA	254/254/81 mm	GES HB31
GPx 400 905 y	40 kV	9 mA	254/254/106 mm	special HV connector
GPx 500 705 y	50 kV	7 mA	254/254/106 mm	special HV connector
GPx 600 605 y	60 kV	6 mA	254/254/106 mm	special HV connector
GPx 700 505 y	70 kV	5 mA	254/254/106 mm	special HV connector
<b>GPS-1U 300 W</b>				
GPx 10 307 y	1 kV	300 mA	410 mm / 19" / 1U	SHV
GPx 20 157 y	2 kV	150 mA	410 mm / 19" / 1U	SHV
GPx 30 107 y	3 kV	100 mA	410 mm / 19" / 1U	SHV
GPx 40 756 y	4 kV	75 mA	410 mm / 19" / 1U	SHV
GPx 60 506 y	6 kV	50 mA	410 mm / 19" / 1U	SHV
GPx 80 356 y	8 kV	35 mA	410 mm / 19" / 1U	SHV
GPx 120 256 y	12 kV	25 mA	410 mm / 19" / 1U	LEMO ERA1Y416.CLL
GPx 150 206 y	15 kV	20 mA	410 mm / 19" / 1U	LEMO ERA1Y416.CLL
GPx 200 156 y	20 kV	15 mA	410 mm / 19" / 1U	LEMO ERA3Y425.CLL
GPx 300 106 y	30 kV	10 mA	410 mm / 19" / 1U	LEMO ERA3Y425.CLL
<b>GPS-1U 800 W</b>				
GPx 10 807 y	1 kV	800 mA	410 mm / 19" / 1U	SHV
GPx 20 407 y	2 kV	400 mA	410 mm / 19" / 1U	SHV
GPx 30 257 y	3 kV	250 mA	410 mm / 19" / 1U	SHV
GPx 40 207 y	4 kV	200 mA	410 mm / 19" / 1U	SHV
GPx 60 137 y	6 kV	130 mA	410 mm / 19" / 1U	SHV
GPx 80 107 y	8 kV	100 mA	410 mm / 19" / 1U	SHV
GPx 120 656 y	12 kV	65 mA	410 mm / 19" / 1U	LEMO ERA1Y416.CLL
GPx 150 506 y	15 kV	50 mA	410 mm / 19" / 1U	LEMO ERA1Y416.CLL