



## DC-Sputtering Power Supply Series GX





## 1 Technical Data

	<b>GX 50/250</b>	<b>GX 50/800</b>	<b>GX 50/1000</b>	<b>GX 60/800</b>	<b>GX 80/800</b>
<b>Nominal power</b>	5 kW			6 kW	8 kW
<b>Output voltage</b>	250 V	800 V	1000 V	800 V	
<b>Output current</b>	50 A	14 A	10 A	15 A	20 A
<b>Control</b>	Current, voltage or power controlled				
<b>Modes of operation</b>	External via A/D interface AS 4, AS 4 F, AS 6 or Profibus				
<b>Set point</b>	0 ... 100 % of nominal current, voltage or power				
<b>Output accuracy</b>	+ / - 1 % of nominal value for current, voltage and power				
<b>Arc-suppression</b>	Quenching time: 6 µs up to 3 ms, automatically Delay time: 6 µs up to 10 ms, automatically				
<b>Indications</b>	3 ½ digit display for current, voltage and power (Option)				
<b>Noise emission</b>	L <sub>pA</sub> < 70 dB (A)				
<b>Mains connection</b>	3 x 400 V, +5 % / -10 %, 50 / 60 Hz				
<b>Power consumption</b>	6 kVA		6.6 kVA		9 kVA
<b>Fusing</b>	3 x 16 A				3 x 20 A
<b>Cooling</b>	Water, > 1.5 l / min, 2 to 8 Bar, < 40° C Forced air, maximum ambient temperature 40° C				
<b>Water connection</b>	SMC 10 mm push-in hose				
<b>Cooling capability of water</b>	300 W				400 W
<b>Cooling capability of air</b>	45 W				50 W
<b>Size</b>	½ 19", 3 HU (130 mm) x 520 mm deep (without plug), 590 mm deep (with plug)				
<b>Weight</b>	21 kg				23 kg
<b>Mains cable</b>	4 x 1.5 mm <sup>2</sup>				4 x 2.5 mm <sup>2</sup>
<b>Output cable Type JZ-600-Y-CY</b>	2 x 10 mm <sup>2</sup>	2 x 1.5 mm <sup>2</sup>			2 x 2.5 mm <sup>2</sup>
<b>Mains connection (X2)</b>	Harting Han-Modular Compact				
<b>DC-connection (X1)</b>	Harting Han-Modular Compact				



	<b>GX 80/1000</b>	<b>GX 100/400</b>	<b>GX 100/600</b>	<b>GX 100/800</b>	<b>GX 100/1000</b>
<b>Nominal power</b>	8 kW	10 W			
<b>Output voltage</b>	1000 V	400 V	600 V	800 V	1000 V
<b>Output current</b>	16 A	38 A	30 A	25 A	20 A
<b>Control</b>	Current, voltage or power controlled				
<b>Modes of operation</b>	External via A/D interface AS 4, AS 4 F, AS 6 or Profibus				
<b>Set point</b>	0 ... 100 % of nominal current, voltage or power				
<b>Output accuracy</b>	+ / - 1 % of nominal value for current, voltage and power				
<b>Arc-suppression</b>	Quenching time: 6 µs up 3 ms, automatically Delay time: 6 µs up to 10 ms, automatically				
<b>Indications</b>	3 ½ digit display for current, voltage and power (Option)				
<b>Noise emission</b>	L <sub>pA</sub> < 70 dB (A)				
<b>Mains connection</b>	3 x 400 V, + / -10 %, 50 / 60 Hz				
<b>Power consumption</b>	9 kVA	11 kVA			
<b>Fusing</b>	3 x 20 A				
<b>Cooling</b>	Water, > 1.5 l / min, 2 to 8 Bar, < 40° C Forced air, maximum ambient temperature 40° C				
<b>Water connection</b>	SMC 10mm Push-in house				
<b>Cooling capability of water</b>	400 W	500 W			
<b>Cooling capability of air</b>	50 W				
<b>Size</b>	½ 19", 3 HU (130 mm) x 520 mm deep (without plug), 590 mm deep (with plug)				
<b>Weight</b>	23 kg				
<b>Mains cable</b>	4 x 2.5mm <sup>2</sup>				
<b>Output cable Type JZ-600-Y-CY</b>	2 x 2.5 mm <sup>2</sup>	2 x 6 mm <sup>2</sup>		2 x 4 mm <sup>2</sup>	
<b>Mains connection (X2)</b>	Harting Han-Modular Compact				
<b>DC-connection (X1)</b>	Harting Han-Modular Compact				



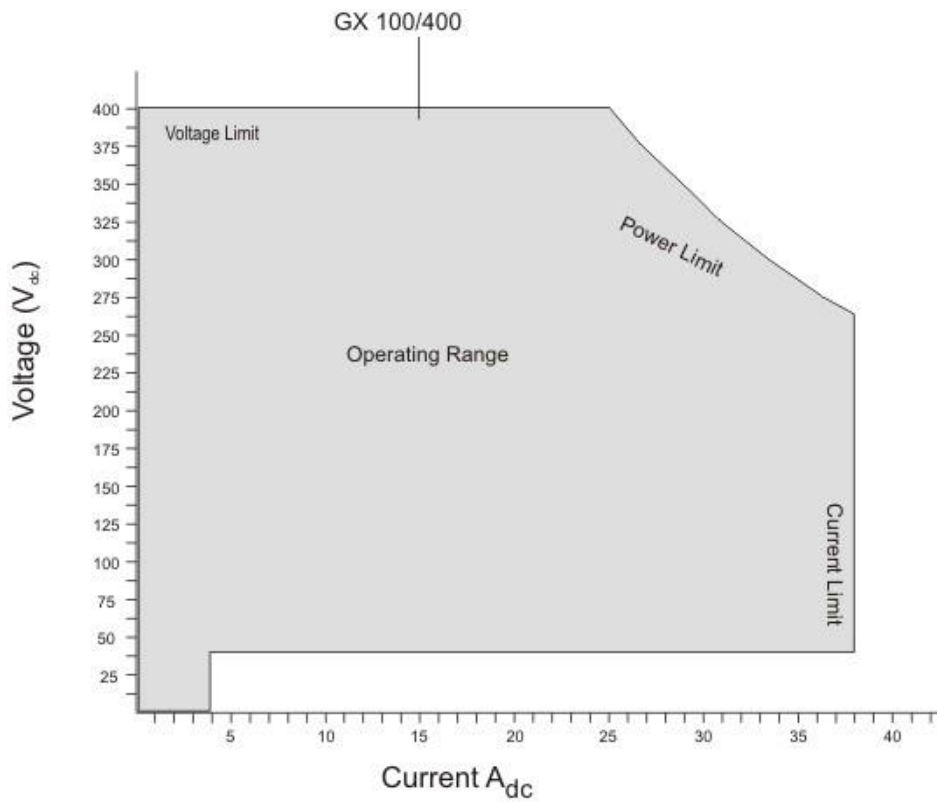
	<b>GX 120/200</b>	<b>GX 120/800</b>	<b>GX 150/800</b>	<b>GX 150/1000</b>
<b>Nominal power</b>	12 kW	12 kW	15 kW	
<b>Output voltage</b>	200 V	800 V		1000 V 30
<b>Output current</b>	60 A	30 A	38 A	A
<b>Control</b>	Current, voltage or power controlled			
<b>Modes of operation</b>	External via A/D interface AS 4, AS 6, AS 4 F or Profibus			
<b>Set point</b>	0 ... 100 % of nominal current, voltage or power			
<b>Output accuracy</b>	+ / - 1 % of nominal value for current, voltage and power			
<b>Arc-suppression</b>	Quenching time: 6 µs up to 3 ms, automatically Delay time: 6 µs up to 10 ms, automatically			
<b>Indications</b>	3 ½ digit display for current, voltage and power (Option)			
<b>Noise emission</b>	L <sub>pA</sub> < 70 dB (A)			
<b>Mains connection</b>	3 x 400 V, + / -10 %, 50 / 60 Hz			
<b>Power consumption</b>	13.2 kVA		16.5 kVA	
<b>Fusing</b>	3 x 25 A			
<b>Cooling</b>	Water, > 1,5 l / min, 2 to 8 Bar, < 40° C Forced air, maximum ambient temperature 40° C			
<b>Water connection</b>	SMC 10mm Push-in house			
<b>Cooling capability of water</b>	600 W		750 W	
<b>Cooling capability of air</b>	60 W			
<b>Size</b>	½ 19", 3 HU (130 mm) x 520 mm deep (without plug), 590 mm deep (with plug)			
<b>Weight</b>	23 kg		25 kg	
<b>Mains cable</b>	4 x 4mm <sup>2</sup>			
<b>Output cable</b>	2 x 16 mm <sup>2</sup>		2 x 6 mm <sup>2</sup>	
<b>Type JZ-600-Y-CY</b>				
<b>Mains connection (X2)</b>	Harting Han-Modular Compact			
<b>DC-connection (X1)</b>	Harting Han-Modular Compact			



## 1.1 Output Power Operating Ranges GX



Fig. 1.2.a – Operating Range GX 50/250





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Fig. 1.2.b – Operating Range GX 100/400

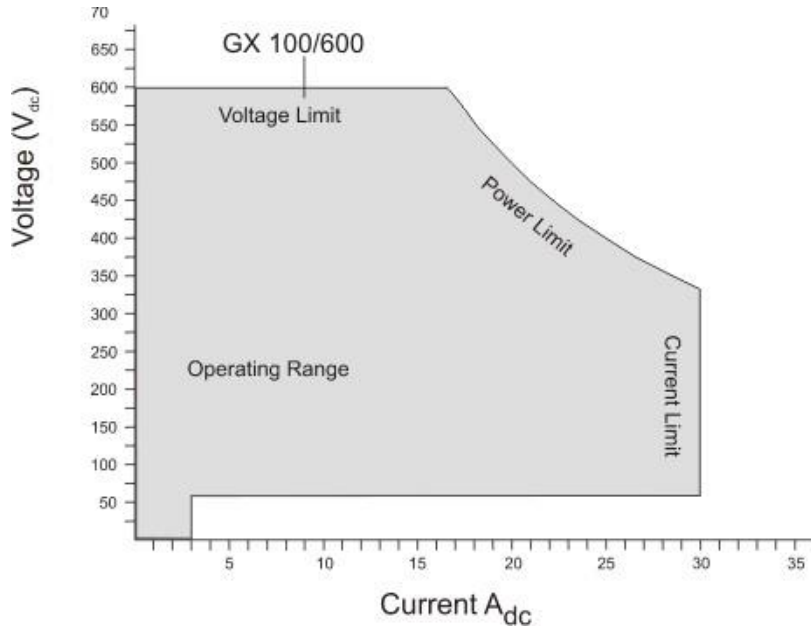
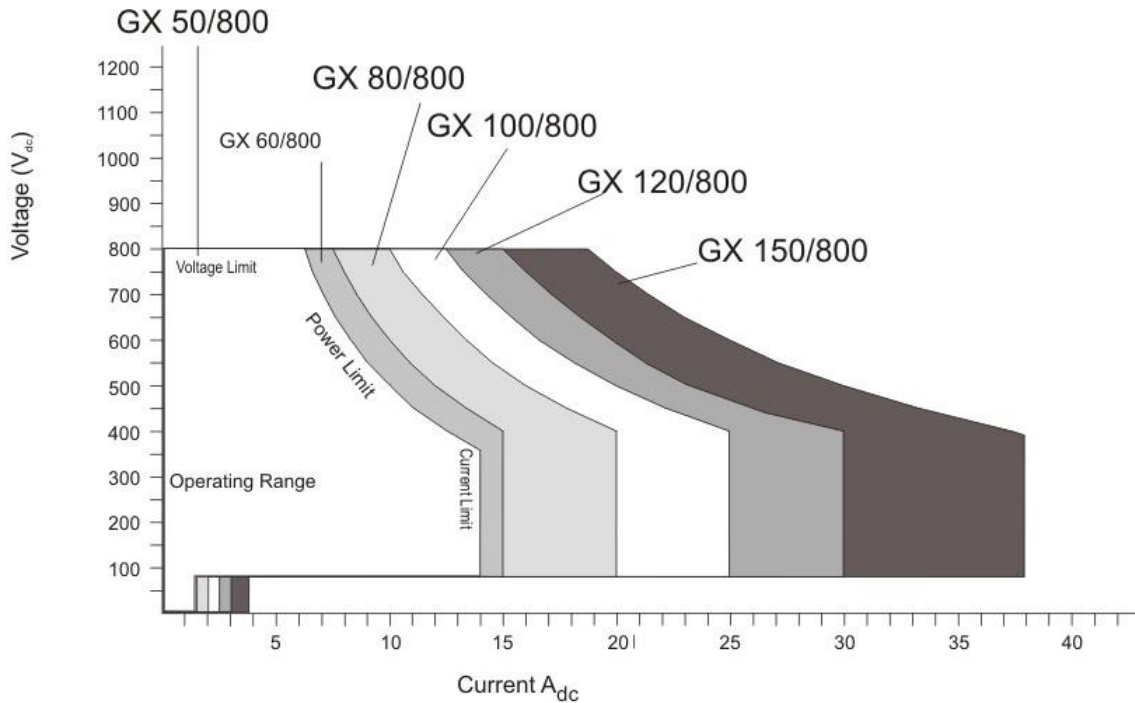


Fig. 1.2.c – Operating Range GX 100/600





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Fig. 1.2.d – Operating Ranges GX 50/800 to GX 150/800

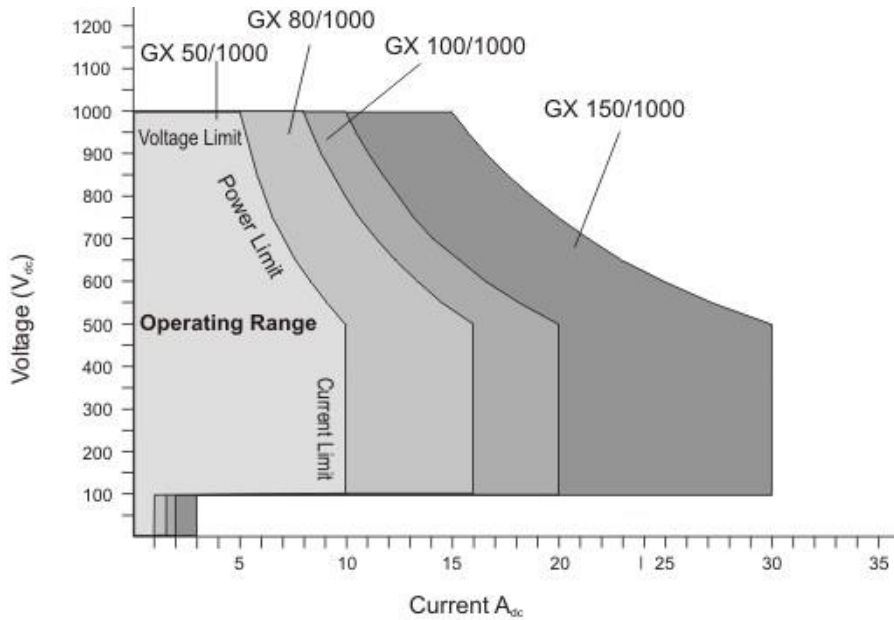


Fig. 1.2.e – Operating Ranges GX 50/1000 to 150/1000

