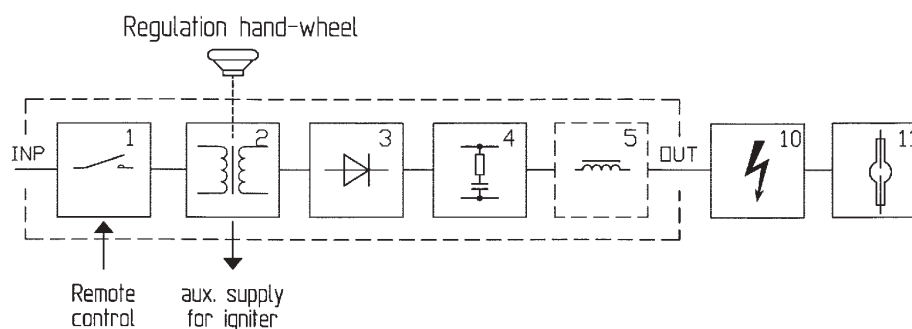


G3 series

Introduction

A complete range of high quality **open frame rectifier power supplies** expressly designed to ensure correct operation and long life of short arc Xenon lamps from 1600 to 7000W. G3 rectifiers, developed to meet the recommendations of Xenon lamp manufacturers, are fitted with special **IREM** transformers with adjustable magnetic shunt for continuous output regulation over the entire operating range. Furthermore, they are designed for continuous duty at ambient temperature of 40°C with a proper ventilation, and are equipped with three terminals for the ON/OFF control and two terminals to provide the supplying to the igniter when the unit is ON.

Block diagram

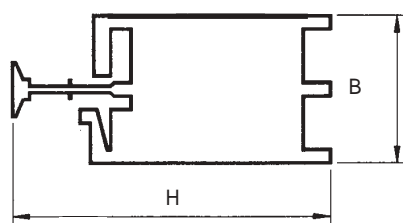
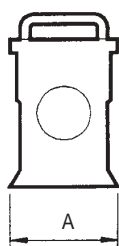


- | | |
|--|--|
| 1) Remote control switch | 5) Auxiliary filter (AF - optional on G3-80, G3-100) |
| 2) Transformer with adjust. magnetic shunt | 10) Igniter |
| 3) Silicon diodes | 11) Lamp |
| 4) Filter and inrush current limiter | |

Model	Lamp power range [W] (approx.)	DC output current range [A]	DC output voltage range [V]	No-load voltage range* [V]	Pk to pk current ripple (with AF)	Pk to pk current ripple (without AF)	Max. input apparent power [VA]	Efficiency
G3-80	1600 - 2000	43 - 85	21 - 35	107 - 109	<3%	<8%	5800	>0,8
G3-100	2000 - 3000	52 - 110	28 - 36	104 - 112	<3%	<8%	6900	>0,8
G3-150	3000 - 5000	80 - 150	28 - 40	107 - 112	<3%	-	9400	>0,8
G3-180	5000 - 7000	110 - 165	28 - 48	115 - 122	<3%	-	13000	>0,8

For more detailed information on voltage range see on relevant technical data.
 * No-load voltage range at min. input voltage measured 0.5 s after switching on.

Outline drawing



Models	Dimensions [mm]			Weight [kg] with AF	Weight [kg] without AF
	A	B	H		
G3-80	410	301	785	106	88
G3-100	410	301	785	122	108
G3-150	410	301	785	126	-
G3-180	410	301	795	154	-

G3 series - technical data

MODEL / TECHNICAL DATA	G3-80					G3-100				
	INPUT DATA AC nominal voltage [V], 3ph Input voltage range [V] Frequency [Hz] Frequency range [Hz] Max. power [VA] Max. input current [A]	400 380-440 50 48-52 5800 8.4	220 208-242 50 48-52 5800 15.2	415 394-456 50 48-52 5800 8.1	220 208-230 60 57-63 5800 15.2	200 190-220 50 48-52 5800 16.7	400 380-440 50 48-52 6900 10	220* 208-242 50 48-52 6900 18.1	415 394-456 50 48-52 6900 9.6	220 208-230 60 57-63 6900 18.1
OUTPUT DATA No-load voltage at min. input voltage ** [V] DC output voltage range [V] DC output current range [A] Lamp power range [W] (approx.) Peak-to-peak current ripple [%] . with AF . without AF Efficiency Output instruments Aux. supply Aux. supply protection	107 21-35 43-85 1600-2000 <3 <8 >0.8 - provided fuse	107 21-35 43-85 1600-2000 <3 <8 >0.8 - provided fuse	107 21-35 43-85 1600-2000 <3 <8 >0.8 - provided fuse	109 21-35 43-85 1600-2000 <3 <8 >0.8 - provided fuse	107 21-35 45-85 1600-2000 <3 <8 >0.8 - provided fuse	106 28-36 52-110 2000-3000 <3 <8 >0.8 - provided fuse	111 28-36 52-110 2000-3000 <3 <8 >0.8 - provided fuse	109 28-36 52-110 2000-3000 <3 <8 >0.8 - provided fuse	104 28-36 52-110 2000-3000 <3 <8 >0.8 - provided fuse	
Safety standards EMC standards Markings Degree of protection Isolation class Storage temperature [°C] Operating temperature [°C] Cooling Dimensions AxBxH [mm] Weight [kg] Mounting position Suggested igniter	CE CE CE IP00 CL1 -20 to +60 0 to +40 free convection 410 x 301 x 785 88 (without AF) - 106 (with AF) vertical / horizontal AS-8030 - ASN-700A - AS-16040A	CE CE CE IP00 CL1 -20 to +60 0 to +40 free convection 410 x 301 x 785 88 (without AF) - 106 (with AF) vertical / horizontal AS-8030 - ASN-700A - AS-16040A	UL122 EN60439-1 EN 61547 CE IP00 CL1 -20 to +60 0 to +40 free convection 410 x 301 x 785 88 (without AF) - 106 (with AF) vertical / horizontal AS-8030 - ASN-700A - AS-16040A	UL UL UL IP00 CL1 -20 to +60 0 to +40 free convection 410 x 301 x 785 88 (without AF) - 106 (with AF) vertical / horizontal AS-8030 - ASN-700A - AS-16040A	CE CE CE IP00 CL1 -20 to +60 0 to +40 free convection 410 x 301 x 785 108 (without AF) - 122 (with AF) vertical / horizontal ASN-700A - AS-16040A	UL122 EN60439-1 EN 61547 CE IP00 CL1 -20 to +60 0 to +40 free convection 410 x 301 x 785 108 (without AF) - 122 (with AF) vertical / horizontal ASN-700A - AS-16040A	UL122 EN60439-1 EN 61547 CE IP00 CL1 -20 to +60 0 to +40 free convection 410 x 301 x 785 108 (without AF) - 122 (with AF) vertical / horizontal ASN-700A - AS-16040A	UL UL UL IP00 CL1 -20 to +60 0 to +40 free convection 410 x 301 x 785 108 (without AF) - 122 (with AF) vertical / horizontal ASN-700A - AS-16040A	CE CE CE IP00 CL1 -20 to +60 0 to +40 free convection 410 x 301 x 785 108 (without AF) - 122 (with AF) vertical / horizontal ASN-700A - AS-16040A	

* theoretical data

** 0.5 seconds after switching on

Output instruments: A = ammeter - V= voltmeter
Different input voltages or frequencies are available on request.

G3 series - technical data

MODEL/ TECHNICAL DATA	G3-150					G3-180				
	INPUT DATA Nominal voltage [V], 3ph Input voltage range [V] Frequency [Hz] Frequency range [Hz] Max. power [W] Max. input current [A]	400 380-440 50 48-52 9400 13.6	220* 208-242 50 48-52 9400 24.7	415 394-456 50 48-52 9400 13.1	220 208-230 60 57-63 9400 24.7	200 190-220 50 48-52 9400 27.1	400 380-440 50 48-52 13000 18.8	220* 208-242 50 48-52 13000 34.1	415 394-456 50 48-52 13000 18.1	220 208-230 60 57-63 13000 34.1
OUTPUT DATA No-load voltage at min. input voltage ** [V] DC output voltage range [V] DC output current range [A] Lamp power range [W] (approx.) Peak-to-peak current ripple [%] . with AF . without AF Efficiency Output instruments Aux. supply Aux. supply protection	112 28-40 80-150 3000-5000 <3 >0.8 - provided fuse	108 28-40 80-150 3000-5000 <3 >0.8 - provided fuse	108 28-40 80-150 3000-5000 <3 >0.8 - provided fuse	110 28-40 80-150 3000-5000 <3 >0.8 - provided fuse	107 28-40 80-150 3000-5000 <3 >0.8 - provided fuse	122 28-48 110-165 5000-7000 <3 >0.8 - provided fuse	120 28-48 110-165 5000-7000 <3 >0.8 - provided fuse	120 28-48 110-165 5000-7000 <3 >0.8 - provided fuse	120 28-48 110-165 5000-7000 <3 >0.8 - provided fuse	
Safety standards EMC standards Markings Degree of protection Isolation class Storage temperature [°C] Operating temperature [°C] Cooling Dimensions AxBxH [mm] Weight [kg] with AF Mounting position Suggested igniter	CE CE CE IP00 CL1 -20 to +60 0 to +40 free convection*** 410 x 301 x 785 126 vertical / horizontal ASN-700A - AS-16040A	CE CE CE IP00 CL1 -20 to +60 0 to +40 free convection*** 410 x 301 x 785 126 vertical / horizontal ASN-700A - AS-16040A	CE CE CE IP00 CL1 -20 to +60 0 to +40 free convection*** 410 x 301 x 785 126 vertical / horizontal ASN-700A - AS-16040A	UL122 EN60439-1 EN 61547 UL CE IP00 CL1 -20 to +60 0 to +40 free convection*** 410 x 301 x 795 154 vertical / horizontal ASN-700A - AS-16040A	UL122 EN60439-1 EN 61547 UL CE IP00 CL1 -20 to +60 0 to +40 free convection*** 410 x 301 x 795 154 vertical / horizontal ASN-700A - AS-16040A					

* theoretical data

** 0.5 seconds after switching on

*** the user has to provide for ventilation

Output instruments: A = ammeter - V = voltmeter

Different input voltages or frequencies are available on request.