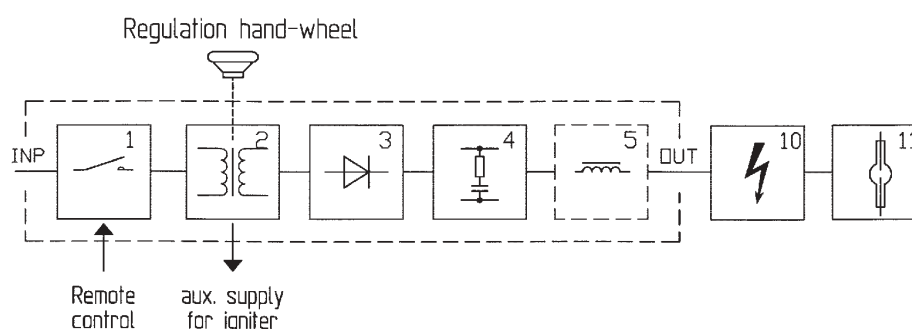


G3 series

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

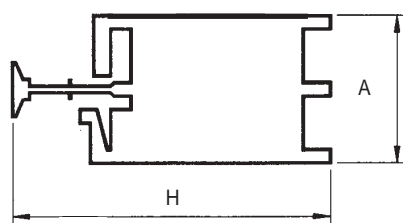
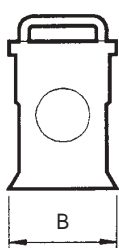


- | | |
|--|--|
| 1) Remote control switch | 5) Auxiliary filter (AF - optional on G3-80, G3-100) |
| 2) Transformer with adjust. magnetic shunt | 10) Igniter |
| 3) Silicon diodes | 11) Lamp |
| 4) Filter and inrush current limiter | |

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 / ITEM NUMBER	G3-80			G3-100		
	00608020 00608022	00608024	00608028 00608032	00610020 on demand	00610024	00610028 00610032
INPUT DATA						
AC nominal voltage [V], 3ph	400	220	200	400	415	200
Input voltage range [V]	380-440	208-230	190-220	380-440	394-456	190-220
Frequency [Hz]	50	60	50	50	50	50
Frequency range [Hz]	48-52	57-63	48-52	48-52	48-52	48-52
Max. power [VA]	5800	5800	5800	6900	6900	6900
Max. input current [A]	8.4	15.2	16.7	10	9.6	19.9
OUTPUT DATA						
No-load voltage at min. input voltage** [V]	107	109	107	112	111	104
DC output voltage range [V]	21-35	21-35	21-35	28-36	28-36	28-36
DC output current range [A]	43-85	43-85	45-85	52-110	52-110	52-110
Lamp power range [W] (approx.)	1600-2000	1600-2000	1600-2000	2000-3000	2000-3000	2000-3000
Peak-to-peak current ripple [%]	<3	<3	<3	<3	<3	<3
. with AF	<8	<8	<8	<8	<8	<8
. without AF	>0.8	>0.8	>0.8	>0.8	>0.8	>0.8
Efficiency						
Output instruments	-	-	-	-	-	-
Aux. supply	provided fuse	provided fuse	provided fuse	provided fuse	provided fuse	provided fuse
Aux. supply protection						
Safety standards	CE	UL122 EN60439-1	CE	CE	UL122 EN60439-1	CE
EMC standards	CE	EN 61547	CE	CE	EN 61547	CE
Markings		IP00			IP00	
Degree of protection		CL1			CL1	
Isolation class		-20 to +60			-20 to +60	
Storage temperature [°C]		0 to +40			0 to +40	
Operating temperature [°C]		free convection			free convection	
Cooling		410 x 301 x 785			410 x 301 x 785	
Dimensions AxBxH [mm]		88 (without AF) - 106 (with AF)			108 (without AF) - 122 (with AF)	
Weight [kg]		vertical / horizontal			vertical / horizontal	
Mounting position		AS-8030 - ASN-700A - AS-16040A			ASN-700A - AS-16040A	
Suggested igniter						

* theoretical data

** 0.5 seconds after switching on

Different input voltages or frequencies are available on request.

G3 series - technical data

MODEL/ TECHNICAL DATA/ ITEM NUMBER	G3-150			G3-180						
	00615220	on demand	00615224	00615228	00615232	00618220	on demand	00618224	00618228	on demand
INPUT DATA										
Nominal voltage [V], 3ph	400	220*	415	220	200	400	220*	415	220	200*
Input voltage range [V]	380-440	208-242	394-456	208-230	190-220	380-440	208-242	394-456	208-230	190-220
Frequency [Hz]	50	50	50	60	50	50	50	50	60	50
Frequency range [Hz]	48-52	48-52	48-52	57-63	48-52	48-52	48-52	48-52	57-63	48-52
Max. power [W]	9400	9400	9400	9400	9400	13000	13000	13000	13000	13000
Max. input current [A]	13.6	24.7	13.1	24.7	27.1	18.8	34.1	18.1	34.1	37.6
OUTPUT DATA										
No-load voltage at min. input voltage ** [V]	112	108	108	110	107	122	115	120	120	120
DC output voltage range [V]	28-40	28-40	28-40	28-40	28-40	28-48	28-48	28-48	28-48	28-48
DC output current range [A]	80-150	80-150	80-150	80-150	80-150	110-165	110-165	110-165	110-165	110-165
Lamp power range [W] (approx.)	3000-5000	3000-5000	3000-5000	3000-5000	3000-5000	5000-7000	5000-7000	5000-7000	5000-7000	5000-7000
Peak-to-peak current ripple [%] . with AF . without AF	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Efficiency	>0.8	>0.8	>0.8	>0.8	>0.8	>0.8	>0.8	>0.8	>0.8	>0.8
Output instruments Aux. supply Aux. supply protection	- provided fuse	- provided fuse	- provided fuse	- provided fuse	- provided fuse	- provided fuse	- provided fuse	- provided fuse	- provided fuse	- 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	UL	CE	CE	CE	CE	UL	CE
	UL122 EN60439-1 EN 61547			UL122 EN60439-1 EN 61547			UL122 EN60439-1 EN 61547			
	IP00 CL1 -20 to +60 0 to +40 free convection*** 410 x 301 x 785 126 vertical / horizontal ASN-700A - AS-16040A			IP00 CL1 -20 to +60 0 to +40 free convection*** 410 x 301 x 795 154 vertical / horizontal ASN-700A - AS-16040A			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

Different input voltages or frequencies are available on request.