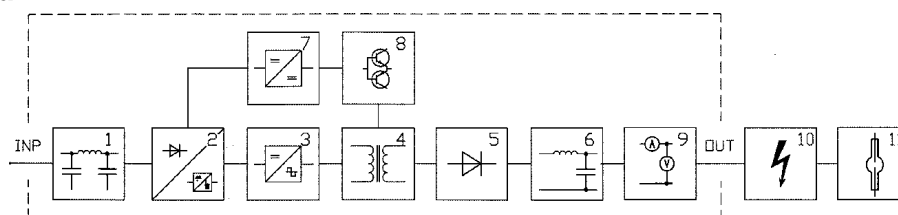


EX series

Introduction

This new range of **electronic power supplies** has been designed to feed short arc Xenon lamps from 250 to 10000W. They meet all the requirements of lamp manufacturers and ensure correct operation, long life to the lamps and high reliability. This range of compact and lightweight power supplies has been designed in compliance with the main international Standards and has been studied to be installed inside a cabinet. Their compact design, the advanced technology, the displacement of input and output terminal boards, the lamp current control, all assembled in a sturdy metallic case, make the units suitable for a wide variety of applications both in vertical and horizontal position.

Block diagram



- | | |
|---|---------------------------|
| 1) EMI input filter | 7) Auxiliary supply block |
| 2) Three phase diode bridge (on PFC for G/1 mod.) | 8) Driver block |
| 3) Inverter block | 9) Synoptic panel |
| 4) HV transformer | 10) Igniter |
| 5) Output rectifier circuit | 11) Lamp |
| 6) Output filter | |

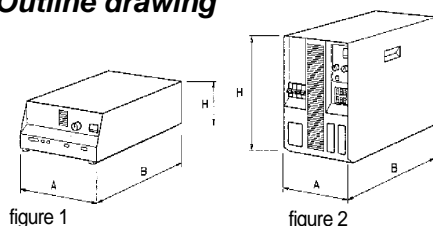
Models	Lamp power range [W] (approx.)	DC output current range [A]	DC output voltage range [V]	No-load voltage range* [V]	Pk to pk current ripple	Max. input power [W]	Efficiency
EX-30G/1**	250 - 500	12 - 30	11 - 22.5	100	<1.5%	625	>0,8
EX-100G/1**	1000 - 3000	30 - 110	17 - 33	103	<1.5%	3450	>0,87
EX-100G/3	1000 - 3000	30 - 110	17 - 34	120 - 123	<1.5%	3330	>0,9
EX-170G/3	2000 - 7000	60 - 170	24 - 46	120 - 127	<1%	7780	>0,9
EX-200G/3	3600 - 10000	80 - 210	30 - 58	135 - 150	<1%	11110	>0,9

For more detailed information on voltage range see on relevant technical data.

* No-load voltage range at min. input voltage measured 4 s after switching on

** single-phase model

Outline drawing



Model	Figure	Dimensions [mm] A x B x H	Weight [kg]
EX-30G/1	1	265x335x135	7.7
EX-100G/1	2	225x435x350	22.5
EX-100G/3	2	225x435x350	19
EX-170G/3	2	255x475x420	33
EX-200G/3	2	255x475x420	33

EX series - technical data



EX series

MODEL / TECHNICAL DATA	EX-30G/1	EX-100G/1	EX-100G/3	EX-100G/3
INPUT DATA AC nominal voltage [V] Input voltage range [V] Frequency [Hz] Frequency range [Hz] Max. power [W] Max. input current [A] Protection device	230, 1ph 185-265 50/60 47-63 625 10 fuse	230, 1ph 185-265 50/60 47-63 3450 24 circuit breaker	400, 3ph 360-460 50/60 47-63 3330 11 circuit breaker	208, 3ph 187-230 50/60 47-63 3330 15 circuit breaker
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 [%] Efficiency Output instruments [LCD] Output signal [led]	100 11-22.5 12-30 250-500 <1.5 >0.8 A [LED] mains input - overtemperature	103 17-33 30-110 1000-3000 <1.5 >0.87 A/V mains input - overtemperature lamp ON - max. current setting	120 17-34 30-110 1000-3000 <1.5 >0.9 A/V mains input - overtemperature lamp ON - max. current setting	123 17-34 30-110 1000-3000 <1.5 >0.9 A/V mains input - overtemperature lamp ON - max. current setting
ON/OFF control Lamp current adjustment Remote control Output signal [dry contacts]	switch potentiometer ON/OFF lamp ON - ignition ready	switch potentiometer ON/OFF 0-10V lamp ON	switch potentiometer ON/OFF 0-10V lamp ON	switch potentiometer ON/OFF 0-10V lamp ON
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	UL122 EN61204 EN50081-1 EN50082-1 EN61003-2 EN610003-3 CE IP00 CL1 -20 to +60 0 to +45 forced** 265 x 335 x 135 7.7 horizontal/vertical AS-3040	UL122 EN61204 EN50081-1 EN50082-1 EN50082-1 CE IP00 CL1 -20 to +60 0 to +45 forced** 225 x 435 x 350 22.5 horizontal/vertical ASN-700A AS-16040A	UL122 EN61204 EN50081-1 EN50082-1 EN61003-2 EN610003-3 CE IP00 CL1 -20 to +60 0 to +45 forced** 225 x 435 x 350 19 horizontal/vertical ASN-700A AS-16040A	UL122 EN61204 EN50081-1 EN50082-1 EN61003-2 EN610003-3 complying with UL IP00 CL1 -20 to +60 0 to +45 forced** 225 x 435 x 350 19 horizontal/vertical ASN-700/A AS-16040A

* 4 seconds after switching on
EX-30G/1 and EX-100G/1 are fitted with Power Factor Correction
Output instruments: A = ammeter - V = voltmeter Different input voltages or frequencies are available on request.
** a proper free space must be assured to grant the cooling provided by the built-in fan.

EX series - technical data



EX series

MODEL / TECHNICAL DATA	EX-170G/3	EX-170G/3	EX-200G/3	EX-200G/3
INPUT DATA AC nominal voltage [V] Input voltage range [V] Frequency [Hz] Frequency range [Hz] Max. power [W] Max. input current [A] Protection device	400, 3ph 360-460 50/60 47-63 7780 18 circuit breaker	208, 3ph 187-230 50/60 47-63 7780 24 circuit breaker	400, 3ph 360-460 50/60 47-63 11110 23 circuit breaker	208, 3ph 187-230 50/60 47-63 11110 33 circuit breaker
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 [%] Efficiency	120 24-46 60-170 2000-7000 <1 >0.9 A/V	127 24-46 60-170 2000-7000 <1 >0.9 A/V	135 30-58 80-210 3600-10000 <1 >0.9 A/V	150 30-58 80-210 3600-10000 <1 >0.9 A/V
Output instruments [LCD] Output signal [led]	mains input - overtemperature lamp ON - max. current setting	mains input - overtemperature lamp ON - max. current setting	mains input - overtemperature lamp ON - max. current setting	mains input - overtemperature lamp ON - max. current setting
ON/OFF control Lamp current adjustment Remote control Output signal [dry contacts]	switch potentiometer ON/OFF 0-10V lamp ON	switch potentiometer ON/off 0-10V lamp ON	switch potentiometer ON/OFF 0-10V lamp ON	switch potentiometer ON/OFF 0-10V lamp ON
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	UL122 EN61204 EN50081-2 EN61000-6-2 CE IP00 CL1 -20 to +60 0 to +45 forced** 255 x 475 x 420 33 horizontal/vertical ASN-700A AS-16040A	UL122 EN61204 EN50081-2 EN61000-6-2 UL IP00 CL1 -20 to +60 0 to +45 forced** 255 x 475 x 420 33 horizontal/vertical ASN-700A AS-16040A	UL122 EN61204 EN50081-2 EN61000-6-2 CE IP00 CL1 -20 to +60 0 to +45 forced** 255 x 475 x 420 33 horizontal/vertical ASN-1000A	UL122 EN61204 EN50081-2 EN61000-6-2 UL IP00 CL1 -20 to +60 0 to +45 forced** 255 x 475 x 420 33 horizontal/vertical ASN-1000A

* 4 seconds after switching on
Output instruments: A = ammeter - V = voltmeter. Different input voltages or frequencies are available on request.
** a proper free space must be assured to grant the cooling provided by the built-in fan.