

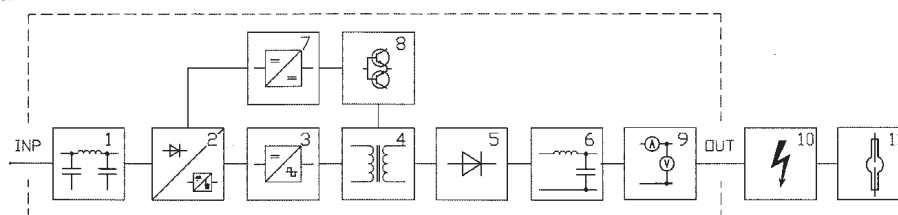
# EX series standard versions

## 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.

\* if the unit is installed inside a console, leave a 150 mm free space on front and rear of the power supply and provide for adequate air flow. Ensure that air slots are always unobstructed. Admitted ambient temperature: 40°C max.

## 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                                  |                           |

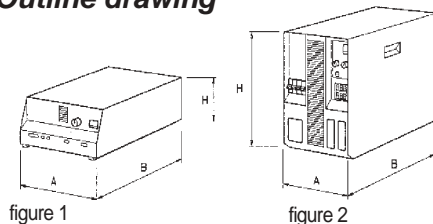
Models	Lamp power range [W] (approx.)	DC output current range [A]	DC output voltage range [V]	No-load voltage range* [V]	Pk to pk current ripple	Max. input power [W]	Efficiency
EX-30G/1**	250 - 500	12 - 30	11 - 22.5	100	<1.5%	625	≥0,8
EX-100G/1**	1000 - 3000	30 - 110	17 - 33	103	<1.5%	3450	≥0,87
EX-100G/3	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	255x465x420	33
EX-200G/3	2	255x465x420	33

# EX standard versions - technical data

MODEL / TECHNICAL DATA / ITEM NUMBER	EX-30G/1 00830300	EX-100G/1 00811000	EX-100G/3 00831000	EX-100G/3 00831005
<b>INPUT DATA</b> AC nominal voltage [V] Input voltage range [V] Frequency [Hz] Frequency range [Hz] Max. power [W] Max. input current [A] Protection device	230, 1ph 90-265 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
<b>OUTPUT DATA</b> 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	100 11-22.5 12-30 250-500 <1.5 ≥0.8	103 17-33 30-110 1000-3000 <1.5 ≥0.87	120 17-34 30-110 1000-3000 <1.5 ≥0.9	123 17-34 30-110 1000-3000 <1.5 ≥0.9
Output instruments [LCD] Output signal [led]	A [LED] mains input - overtemperature	A/V mains input - overtemperature lamp ON - max. current setting	A/V mains input - overtemperature lamp ON - max. current setting	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	EN 61204 EN 50081-1 EN 50082-1 EN 61000-3-2 EN 61000-3-3 CE IP20 CL1 -20 to +60 0 to +40 forced** 265 x 335 x 135 7.7 horizontal/vertical AS-3040	EN 61204 EN 50081-1 EN 50082-1 EN 61000-3-2 EN 61000-3-3 CE IP10 CL1 -20 to +60 0 to +40 forced** 225 x 435 x 350 22.5 horizontal/vertical ASN-700A AS-16040A AS-16035A	EN 61204 EN 50081-1 EN 50082-1 EN 61000-3-2 EN 61000-3-3 CE IP10 CL1 -20 to +60 0 to +40 forced** 225 x 435 x 350 19 horizontal/vertical ASN-700A AS-16040A AS-16035A	EN 61204 EN 50081-1 EN 50082-1 EN 61000-3-2 EN 61000-3-3 CE - complying with UL IP10 CL1 -20 to +60 0 to +40 forced** 225 x 435 x 350 19 horizontal/vertical ASN-700/A AS-16040A AS-16035A

\* 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

# EX standard versions - technical data



## EX series

MODEL / TECHNICAL DATA ITEM NUMBER	EX-170G/3 00831700	EX-170G/3 00831705	EX-200G/3 00832000	EX-200G/3 00832005
<b>INPUT DATA</b> 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 25 circuit breaker	400, 3ph 360-460 50/60 47-63 11110 23 circuit breaker	208, 3ph 187-230 50/60 47-63 11110 36 circuit breaker
<b>OUTPUT DATA</b> 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]	120 24-46 60-170 2000-7000 <1 ≥0.9 AV mains input - overtemperature lamp ON - max. current setting	127 24-46 60-170 2000-7000 <1 ≥0.9 AV mains input - overtemperature lamp ON - max. current setting	135 30-58 80-210 3600-10000 <1 ≥0.9 AV mains input - overtemperature lamp ON - max. current setting	150 30-58 80-210 3600-10000 <1 ≥0.9 AV 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	EN61204 EN 50081-2 EN 61000-6-2 CE IP10 CL1 -20 to +60 0 to +40 forced** 255 x 465 x 420 33 horizontal/vertical ASN-700A AS-16040A/AS-16035A	UL122 EN61204 EN 50081-2 EN 61000-6-2 UL / CE IP10 CL1 -20 to +60 0 to +40 forced** 255 x 465 x 420 33 horizontal/vertical ASN-700A AS-16040A/AS-16035A	EN61204 EN 50081-2 EN 61000-6-2 CE IP10 CL1 -20 to +60 0 to +40 forced** 255 x 465 x 420 33 horizontal/vertical ASN-1000A ASN-20045A	UL122 EN61204 EN 50081-2 EN 61000-6-2 UL / CE IP10 CL1 -20 to +60 0 to +40 forced** 255 x 465 x 420 33 horizontal/vertical ASN-1000A ASN-20045A

\* 4 seconds after switching on

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

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