

eUV

Electronic Power Supplies for UV lamps 2,5 to 40 kW

stepless adjustable from 10 to 100 %

The eUV series *eUV Compact* and *eUV* are designed for the operation of various UV medium pressure lamps.

The lamp voltage has a low frequency rectangular shape. This allows a soft lamp operation and long lamp cables.



The entire power range from 2.5 kW to 40 kW is covered by five sizes, four of them in the space and weight-saving compact design. Because of this a broad range of different lamp voltages can be achieved. All eUVs can be configured via an interface from a PC.

The eUVs are controlled analogue or optionally via common field bus protocols. The device logic is identical for all devices. The interface allows an extensive monitoring, which is supported for service cases by an integrated data logging.

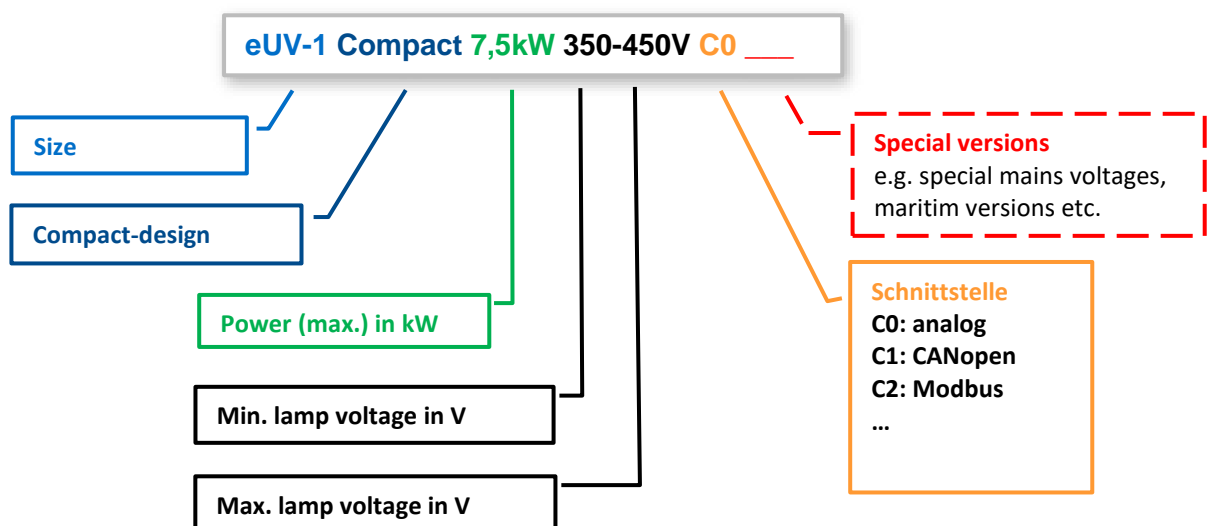
Many years of experience with Electronic Power Supplies, the perfect matching between UV lamp and ballast and careful selection of high-quality electronic components ensure safe operation even in harsh conditions.

Sizes



	eUV-1 Compact	eUV-2 Compact	eUV-3 Compact	eUV-4 Compact	eUV-5
Power	2,5 – 11 kW	10 kW	12 / 20 kW	24 / 30 kW	32 / 36 / 40 kW
Lamp voltage	bis 450 V	560 – 1300 V	470 – 2100 V	1000 – 2500 V	1060 – 3100 V
LxWxH in mm	380 x 80 x 245	460 x 85 x 325	460 x 165 x 305	460 x 240 x 319	590 x 270 x 350

Nomenclature



Advantages

- extremely compact design with low weight
- LFAC* Technology for soft lamp operation and long lamp cables
- same operation logic of all eUVs
- wide range of voltages
- suitable for TN-, TT- and IT mains supplies
- various fieldbus protocols optionally available
- lamp output is protected against ground faults, overload, short and open circuits
- pulse rise times < 3 ms
- status and fault monitoring via contact, analogue output or via service interface
- three stages status information (operation, warning, fault)
- service interface outputs numerous status information
- software for configuration and service available (option)
- eUV Touch control box with colour display available (option)
- 60.000 Stunden lifetime (MTBF)
- 24 months warranty, 15 months guarantee
- acc. to EN 50178:1997, EN 55011:2009+A1:2010, EN 61000-6.2:2005
- Made in Europe

*: LFAC stands for 'Low Frequency AC' technology. The low-frequency AC square-wave lamp signal ensures quasi-free dark pauses and thus a soft lamp operation in the entire power range.

In addition, long cable lengths are unproblematic because the lamp voltage is only slightly attenuated.

The detailed technical data of all eUV versions can be found in our detailed manuals for the different sizes. In addition to the technical data, you will find in the manuals information about control and operating behavior, interfaces, electrical installation and cooling, etc.

Technical data	eUV-1 Compact	eUV-2 Compact	eUV-3 Compact	eUV-4 Compact	eUV-5
Output power	2,5 – 11 kW	10 kW	12 kW / 20 kW	24 / 30 kW	32 / 36 / 40 kW
Lamp operating voltage*	up to 450 V	560 – 1300 V	470 – 2100 V	1000 – 2500 V	1060 – 3100 V
Lamp operating current *	max. 22 / 28,5 A	device-dependant, see respective manual			
Mains voltage	360 – 528 V				
Mains frequency	50 oder 60 Hz				
Mains	L1, L2, L3, PE				
Lamp duty frequency	50 Hz	350 Hz	350 Hz	350 Hz	250 Hz
Power efficiency (η)	98 %	98 %	98 %	97 %	97 %
Max. lamp cable length	300 m	300 m	300 m	300 m	300 m
Ambient temperature	0° bis 40° C				
Analogue power control input	DC 0...10 V or 0...20 mA (can also be controlled with software)				
Analogue output	DC 0...10 V for lamp voltage, power and error code				
Fieldbus protocol	Optionally, variants with common fieldbus protocols are available.				
Cooling of the unit	by internal fans				
Dimensions in mm (LxWxH)	380 x 80 x 245	460 x 85 x 325	460 x 165 x 305	460 x 240 x 319	590 x 270 x 350
Weight	4,1 kg	12 kg	23 kg	35 kg	55 kg

*: The possible burning voltage and the max. lamp current depend on the respective size.
Please take a look into the EPS selection table of the respective eUV manual.





- eUVs with the identification **C0** have analog inputs and analog/digital outputs (standard version)
- eUVs with the identification **C1** can be controlled via **CANopen** or alternatively analog/digital
- eUVs with the identification **C2** can be controlled via **Modbus** or alternatively analog/digital

Electronic Power Supplies for special request (e.g. for other voltages or special applications) are available on request.

Options

The logic of the eUV interfaces and the starting and operating behavior of the different eUVs are identical. This makes e.g. the programming of a machine control (PLC) as easy as possible, because in machines with different lamp power only parameters must be modified.

The interface logic and the lamp control remains the same. Various available options supports the technician to work with a eUV:

Options	
<p>630 10003 0000</p>  	<p>OPA adapter cable for parameter adjustments and service work</p> <p>The set includes all cables and adapters to connect an eUV to a PC as well as the service software OPA (Operating Performance Analyzer) on a USB stick.</p>  <p>With the enclosed software OPA all eUVs can be configured, e.g. the maximum power and max. lamp current. Furthermore, status messages can be detected and analyzed.</p>
<p>630 20044 0000</p> 	<p>eUV Touch Control Box with colour display for Electronic Power Supplies type eUV</p> <p>The eUV Touch control box with colour display can be used for remote control, configure and diagnose of eUVs. A PC is not necessary in this case. Incl. all cables and adapters.</p>