

Universal Electronic Ballast for Mercury-, Mixed-Gas- and Xenon-Short Arc Lamps from 360 W up to 1800 W



EBU - Series

The new series of universal digitized and μ C controlled ballasts replaces all electronic ballasts greater than 200 W of Leistungselektronik JENA GmbH for mixed gas, mercury and xenon short arc lamps.

Several lamp types are stored in the ballast and can be programmed by selecting the operating mode, output and current at the device or an external interface before firing the lamp.

A photo feedback input is available as an option.

The series comes with numerous monitoring and safety functions.



Features

- Power controlled operation of mercury short arc lamps
- Current controlled operation of mixed-gas and xenon short arc lamps
- Lamp output is current and power limited, mains isolated and permanently short-circuit-proof
- Minimal lamp current ripple
- Safety circuit, self-monitoring
- Display of lamp burning time
- Additional output voltage 12VDC or 24VDC, others by request, permanently short-circuit-proof
- Display of lamp power, voltage and current
- Dimming
- Interface USB or. RS232, others by request

Applications

- Solar Simulation
- Photolithography
- Projection
- Wafer Inspection
- UV Sterilization
- Endoscopy
- Spectroscopy
- Spectral Photography

Safety	
Electrical safety	EN 61010-1:2010
Equipment class	I
Protection class	IP 20 (EN 60529)
Safety circuit	yes
Overtemperature protection	yes
Self-monitoring	shutdown by internal failures
Ignition time limitation	< 30 s, max. 3 attempts
Outputs	mains isolated, short-circuit-proof
EMC	
according to	EN 61326-1:2013
Environmental Conditions	
Ambient temperature	0 °C up to + 40 °C
Storage temperature	- 20 °C up to + 85 °C
Conformity	
	CE, RoHS
Approvals	
	NRTL, UL/CSA (on request)

Lighting

HBO/XBO

Light sources

Flashlights

UV-Equipment

Other

Technical Data EBU - Series

	EBU 360	EBU 900	EBU 1350	EBU 1800	
Input Parameters					
Mains voltage	100 ... 240 VAC	100 ... 240 VAC	180 ... 240 VAC	180 ... 240 VAC	
Mains frequency	50 ... 60 Hz	50 ... 60 Hz	50 ... 60 Hz	50 ... 60 Hz	
Power input	max. 600 VA	max. 1.200 VA	max. 1.800 VA	max. 2.400 VA	
Output Parameters					
Operating mode Hg	power controlled	power controlled	power controlled	power controlled	
Operating mode Xe, Xe-Hg	current controlled	current controlled	current controlled	current controlled	
Power limitation	max. 360 W	max. 900 W	max. 1.350 W	max. 2.100 W	
Stability of the output power (8h)	$\leq 2 \times 10^{-2}$	$\leq 2 \times 10^{-2}$	$\leq 2 \times 10^{-2}$	$\leq 2 \times 10^{-2}$	
Lighting	Open circuit voltage max.	190 VDC	190 VDC	190 VDC	
	Lamp voltage max.	100 VDC	100 VDC	100 VDC	
HBO/XBO	Lamp current max.	20 ADC	30 ADC	60 ADC	
Operable Lamps (selection, additional on request)					
Light sources	Mercury	HBO 200W/DC HBO 250W/D, /HS, /BY HBO 350W/S	HBO 350W HBO 500W, W/2 HBO 500W/A, W/B	HBO 1000W/D, W/CEL HBO 1002W/CEL, W/NIL HBO 1003W/PIL	HBO 1500W/PIL HBO 2000W/NIL HBO 2001W/NIL, W/NIEL
Flashlights		L8706 (L2483, L2917)	L8288 L2483, L2917 L2423, L2570		
UV-Equipment	Mixed-Gas	UXM-200 all types	UXM-501MD		
Other	Xenon	XBO 250W/OFR, /4 XBO R 300 W/60 XM150-13HS, -15HS XM300 all types ULX300DO UXL-302-O	XBO 450W all types XBO 500W all types XBO 550W/HTC OFR UXL-450SO UXL-451,-O UXL-500D-O	XBO 700W all types XBO 900W OFR XBO 1000W all types XM505HS, -3HS XM750 all types XM900H/V, /VC	XBO 1200W/DHP XBO 1600W alle Typen UXL-16SB
External Igniters					
	all lamps, but XBO 450W/1 and all UXM-Lamps	iu-3030s	iu-3030s	iu-6040s	
	all UXM-Lamps	iu-3035s	iu-3035s	iu-9040s	
	XBO 450W/1		iu-6040s		
Connecting Cable EBU - Ignitor					
	all lamps (but XBO 450W/1)	1 x AK-EBU3030	1 x AK-EBU3030	1 x AK-EBU6060	
	XBO 450W/1		1 x AK-EBU3060	1 x AK-EBU6060 + 1 x AK-EBU3030	
Version					
	Desktop Device	Desktop Device	Desktop Device	Desktop Device	
Dimensions (WxHxD)	285 x 125 x 340 mm ³	285 x 125 x 340 mm ³	375 x 125 x 370 mm ³	375 x 145 x 480 mm ³	
Weigth	6,5 kg	7,5 kg	11,2 kg	13,9 kg	

Subject to change in accordance with technical advances. (12/2016)