



MLC-Rack

Multi-Lamp-Controller

System Features

- Modular EPS-Driver for max. 64 UV-lamps
- Universal supply voltage between 320-520V
- Power Factor Correction integrated
- Operation via Ethernet or PLC
- Step-less power control

Advantages

- Compact design
- Energy-saving operation
- Easy maintenance due to plug connectors and fasteners
- Optimized electronic lamp ignition
- Valuable diagnosis functions

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The **modular lamp controller** from the MLC series has been especially developed for the operation of **amalgam low pressure UVC lamps**. These devices are designed for lamps with a maximum lamp power of 1,000 W. Thanks to the modular concept, universal use is guaranteed and the system can be adapted to the customer's needs.

Features

Digital control is used for precise adjustment and monitoring of lamp parameters. This ensures efficient, economic and gentle lamp operation, especially in installations with numerous burning positions. The actual operational status of each lamp is signaled by multi-coloured status LEDs. Extensive diagnosis information is available via a web server. It can be viewed via an internet browser. Remote control via web server is also possible.

Operation

The operation of the UV lamps is controlled by an integral **Ethernet interface**. By using an external PLC, all lamps can be ignited and dimmed via **ModBUS TCP**. Also all status information can be seen via this bus.

The integrated PLC interface is designed to control additional external components. Here, four digital inputs and four digital outputs are available. The communication is facilitated via ModBUS or a web server.

PowerFactorCorrection

The mains supply side is equipped with an **electronic Power Factor Correction stage**. This control function makes the current consumption at the power input sinusoidal. This reduces the loss of upstream transformers and minimizes the effects of unwanted harmonics to the supply network.

The enhanced **power factor of >96 %** and the low **THDI value of <5 %** provide the most efficient operation and therefore comply with current and potential future requirements.

Additional features

- GL conformity for ballast water systems
- robust design in stainless steel
- service friendly modular concept with plugged lamp cards and connectors
- improved monitoring of lamp function and gentle pre-heating of filaments
- temperature controlled cooling fan
- software update possible

Technical data

Maximum power per lamp	1,000 W
Maximum power per Rack	12,000 W
Mains supply	3phase + PE
Voltage range	320-520 V, 50/60 Hz
Power Factor (PF)	> 0,96
THDI-value	< 5 %
Efficiency	> 93 %
Power control of lamps	30 - 100 % step-less*
PLC output signal	4 x digital OUT
PLC input signal	4 x digital IN
Interfaces	Ethernet via RJ45-bushing
Communication protocol	ModBUS TCP
Software update	USB
Weight for 20 lamps	approx. 28 kg
Dimensions (WxDxH) incl. brackets**	770 mm x 280 mm x 280 mm
Cable length to lamp	max. 10 m

*Depend on used lamp | **for 20 lamps



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Operating parameters depend on production characteristics and may differ from the foregoing information.
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