

## The ELC<sup>®</sup> Electronic Power Supply Unit

The ELC<sup>®</sup> range of electronic power supply units have been developed specifically to operate UV lamps. They optimise production safety in the print room and also reduce operating costs. They contain all the components for lamp ignition and process control.

### The powerful electronic system offers several benefits:

- **Low operating costs**

The highly efficient ELC<sup>®</sup> operates with low energy consumption. The UV unit can be operated in stand-by mode with lamp output of 20 – 30%. Further savings can also be made depending on the local energy supply (eg, compensation plant, energy distribution and tariff classification).

- **Increased production safety**

Highly consistent lamp output and accurate temperature control are ensured through the integrated output control of the ELC<sup>®</sup>.

Network voltage variations of  $\pm 10\%$  do not affect the lamp output due to the integrated control and monitoring system.

Printing on sensitive materials can begin at a low output and accurate temperature control guarantees no distortion of heat-sensitive substrates even at reduced print speeds.



- **Lamp output control**

Total control of the lamp output has two advantages. Firstly, the lamp can be switched to energy-saving stand-by mode (minimal setting) during long pauses.

Secondly the lamp output can be steplessly adjusted between 25 and 100% depending on the print speed.

- **Compact and light construction**

The compact design of the ELC<sup>®</sup> means that the unit requires 50% less space in the switch cabinet and is 50% lighter than standard power supply units. The unit has plug in connections and pre-adjusted settings for easy installation.

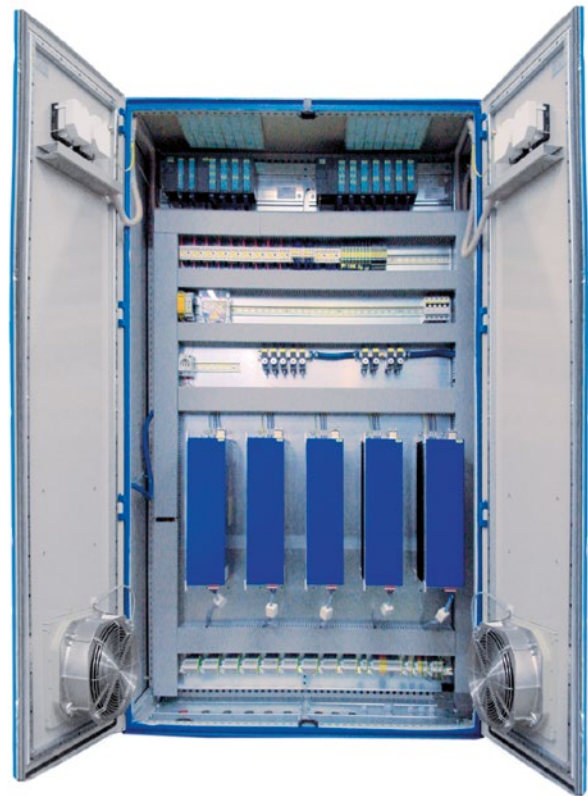
- **Available for lamp outputs up to 32kW**

The ELC<sup>®</sup> range includes power supply units suitable for almost all applications within the graphic arts industry.

ELC<sup>®</sup> units are available for lamp outputs from 4kW to 32kW.

## Performance of the ELC® Electronic Power Supply Units

- Up to 97% electrical efficiency
- The ELC® has a network power factor > 0.9. It can be operated directly from the network without any additional levies.
- The lamp output can be steplessly adjusted from around 20 – 100% via a potential-free control unit or an external potentiometer.
- The potential-free digital controls are designed for control voltages between 10 to 30V AC or DC. The ELC® units can therefore be integrated into the system control unit without any problems.
- Compact design for easy installation in the switch cabinet.
- Lamp power and lamp output are constantly monitored and shown via 0 – 10 V signals.
- The output is automatically adjusted to compensate for any variations in the network voltage.
- Safe in case of short circuits or idle running
- Integrated electronic lamp ignition
- Integrated electronic control and monitoring systems
- Integrated earth leakage detection
- Isolated lamp failure
- Air cooled



The ELC® Power Supply Unit installed in the switch cabinet.

### Technical data

|                            |  |
|----------------------------|--|
| Supply voltage:            | 3 x 400 V ±10% or 3 x 480 V ±10%   |
| Lamp output:               | 4–32 kW depending on unit type   |
| Area for output reduction: | around 20–100%   |
| Power factor:              | around 0.93 rating   |
| Type of protection:        | IP 20  |
| Dimensions:                | N4–N10: 540 x 320 x 130 mm (H x W x D)<br>N12–N16: 650 x 261 x 263 mm (H x W x D)<br>N22–N32: 650 x 261 x 484 mm (H x W x D) |
| Weight:                    | 14–28 kg depending on unit type  |

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