

## EColine 40W 24V output L05046

Lumotech®

### Lumotech technology

Lumotech LED drivers are designed to efficiently power and control LED solutions for general lighting applications. System reliability is enhanced by features that protect the connected LED module, e.g. hot wiring, reduced ripple current and thermal derating. In the coming years LEDs will continue to increase in efficiency, creating new challenges for OEMs. With Lumotech LED drivers, flexibility in luminaire design is assured thanks to adjustable current outputs.



### Benefits

- Designed with system reliability in mind:
  - Low inrush current
  - Low output current ripple
  - Short and open circuit protection, overload and over voltage protection
  - Thermal protection (automatic current limiter)
  - Support for hot-swapping of LEDs
  - Excellent EMC behavior

### Product features

- Low output current ripple (<10 %)
- Thermal protection: dimming instead of switch off
- Active output overvoltage protection
- High efficiency across a wide range of loads
- Power factor 0.97
- SELV
- ENEC certified
- Engineered and Manufactured in Europe

### 5 year warranty

Lumotech takes pride in the quality of its products. We not only develop all products in house, they are also produced in our own manufacturing plants to ensure guaranteed reliability and performance. Lumotech drivers come with the assurance of a 5 year warranty. After all, with typical LED lifetimes of 50,000 hours, it is critical to have a power supply with equal reliability.



### Certificates and standards

- ENEC05, CE
- EN55015 / EN61000-3-2 / EN61347-2-13 / EN61547 / EN62384 / SELV

### Classifications



## Specific technical data

Type	Efficiency at full load	Constant voltage output	Output current range	Open circuit output voltage	Max. output power	Dimming
L05046	90 %	24 Vdc	up to 1.5 A	-	40 W	No

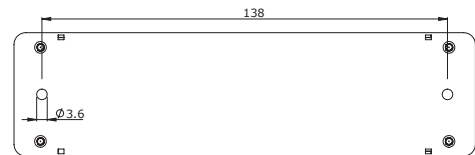
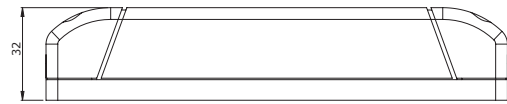
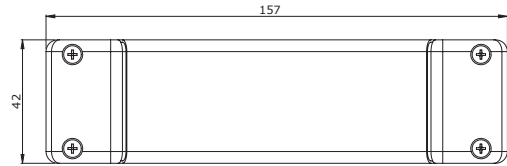
## Technical data

Rated supply voltage	220-240 Vac
Input voltage	110-240 Vac
Mains frequency	50/60 Hz
Output current tolerance	5 %
Typical ripple current at full load	<10 %
Power factor at full load	0.97
Nominal line current	195 mA
Output switching frequency	none
Output voltage setting time	1 second
Output isolation	SELV
Circuit lifetime	80,000 hrs at Ta 50°C
Case dimensions	157 x 42 x 32 mm

## Inrush current

Mains max. peak inrush at full load	2 x I <sub>nom.</sub>
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## Dimensions



## Maximum number of drivers on automatic circuit breakers

Automatic circuit breaker type	C10	C13	C16	C20	B10	B13	B16	B20
L05046	44	57	70	87	44	57	70	87

## Thermal specifications

Ambient temperature range (Ta)	-25 to 60°C
Maximum case temperature (Tc)	< 80°C
Storage temperature range	-20 to 50°C

## Ordering data

Part	Part number	Packaging carton	Multibox carton	Weight per piece
L05046 ECOline 40W 24 Vdc output	L05046	50 pieces	150 pieces	165 g

### Thermal overload protection

If the maximum output power is exceeded, the LED driver reduces the LED output current. After elimination of the overload the nominal operation is restored automatically.

### Short-circuit protection

In case of a short circuit the LED driver switches to protection mode. After the removal of the short-circuit fault the LED driver will recover automatically.

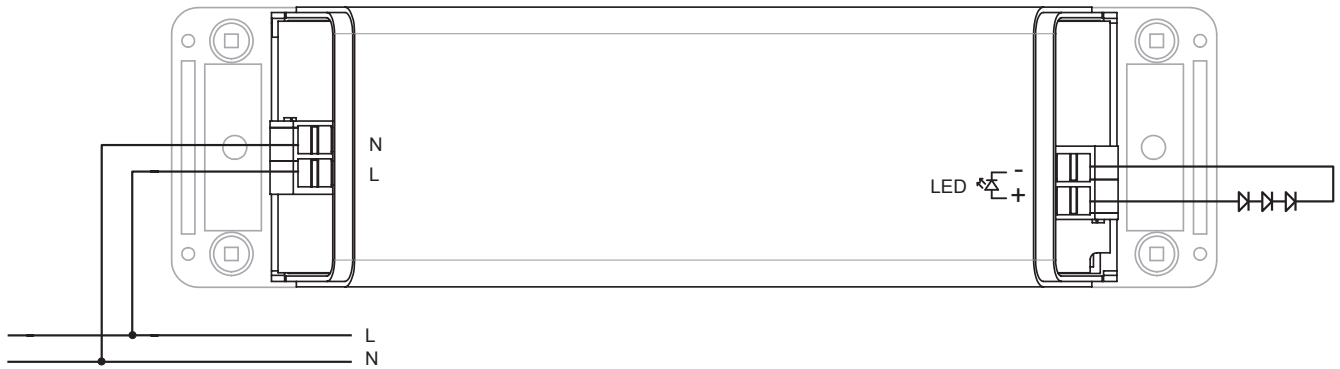
### Overtemperature protection

The LED driver is protected against thermal overload. If the temperature limit is exceeded, the output current is reduced.

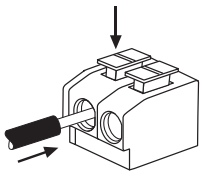
### No-load operation

In no-load operation the output voltage will not exceed the specified open circuit output voltage.

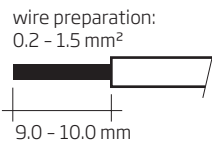
### Wiring diagram



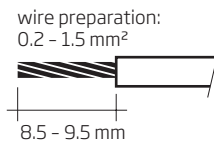
### Wiring of device



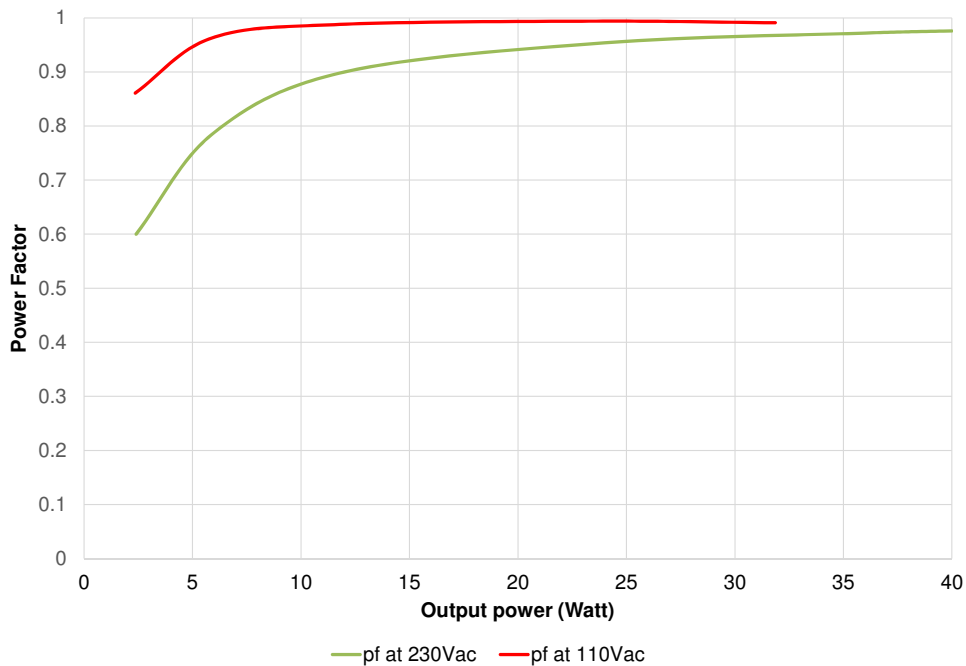
#### Solid



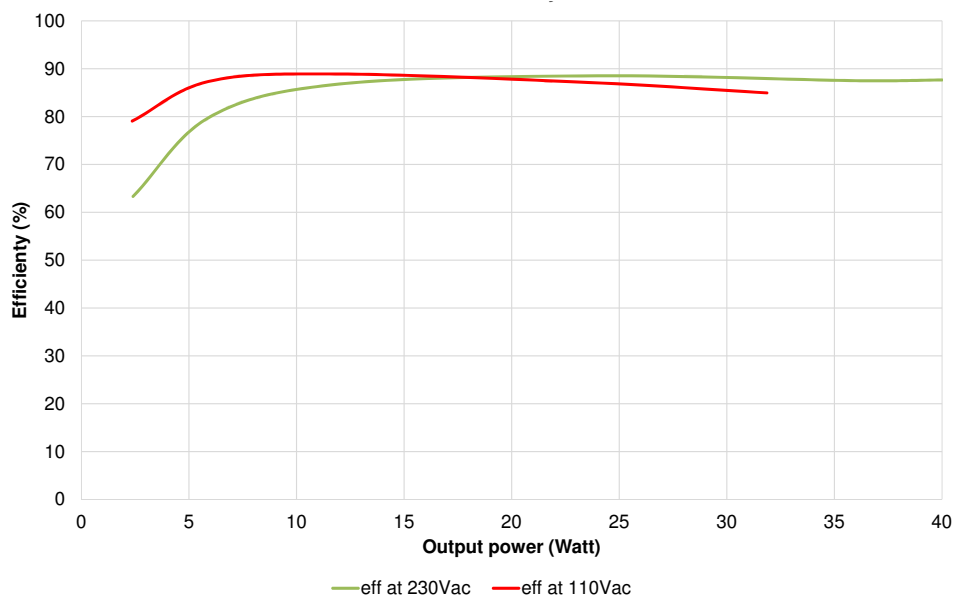
#### Stranded



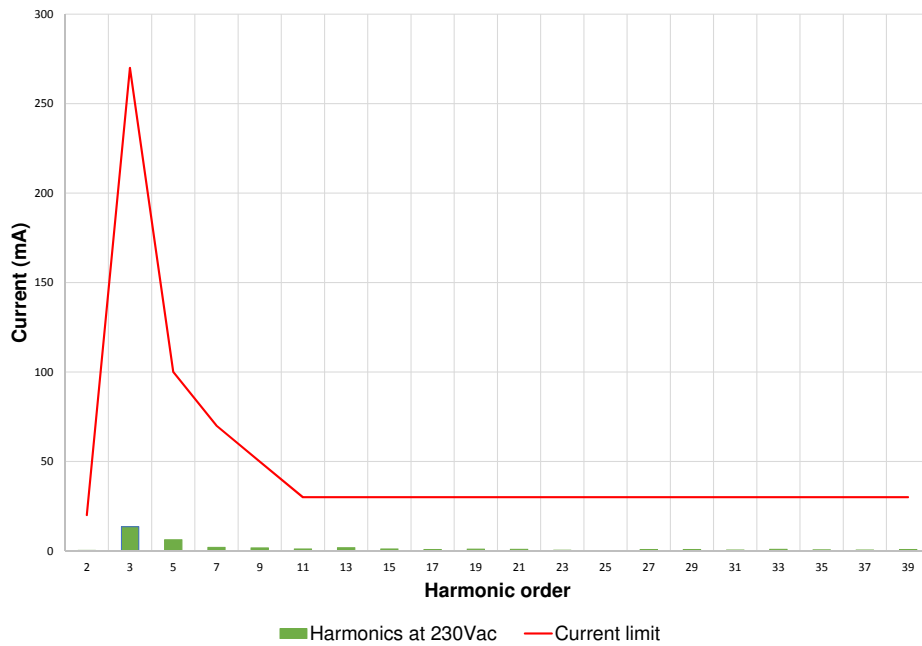
Power factor L05046



Efficiency L05046



Harmonics L05046 (limit according to IEC 61000-3-2 table 2)



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