

**L05025** LED Driver 30W, 7 - 43 Vdc, 100 - 1000 mA

**L05040** LED Driver 40W, 7 - 55 Vdc, 100 - 1000 mA

## Engineered for Best Fixture Performance

Lumotech drivers are all built on core engineering design principles for exceptional standards of performance and reliability in LED systems. Highest-grade critical components together with design features for thermal management ensure excellent reliability. Our low ripple designs create flicker-free lighting and perfectly smooth dimming. Simplicity of specification and installation is a key characteristic of all Lumotech drivers. Hence the wide voltage and current ranges and industry leading low inrush current.



**Awarded DALI driver with high efficiency and adjustable current setting.**

## Engineered for Performance

- Industry leading efficiency
- Excellent EMC behavior
- Very high power factor

## Engineered for Reliability

- Low inrush current
- Thermal protection (automatic current limiter)
- Short and open circuit protection, overload and overvoltage protection

## Engineered for Simplicity

- Future-proof flexibility – industry leading voltage and current range enabling seamless support of LED generations and minimizing supply chain complexity

## 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.

## Product features

- Wide output voltage range 7 - 55 Vdc
- Wide range of current settings 100 - 1000 mA
- DALI dimmable
- Max inrush current 0.4 A
- Low output current ripple (<1% at 100 Hz)
- Active output overvoltage protection
- Up to 89 % efficiency across a wide range of loads
- Power factor 0.98
- SELV
- ENEC certified
- Engineered and manufactured in Europe

## Certificates and standards

- ENEC05, CE
- EN55015 / EN61000-3-2 / EN61347-2-13 / EN61347-1 / EN61547 / EN62384 / SELV

## Classifications









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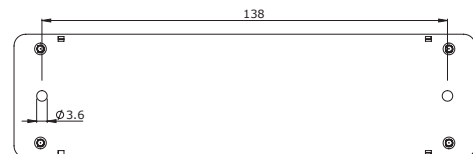
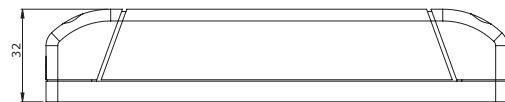
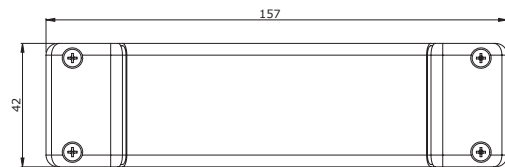
## Specific technical data

Type	Efficiency at full load	Output current	Output voltage range	Open circuit output voltage	Max. output power	Dimming
L05025	88 %	100 - 1000 mA	7 - 43 Vdc	50 Vdc	30 W	DALI
L05040	89 %	100 - 1000 mA	7 - 55 Vdc	64 Vdc	40 W	DALI

## Technical data

Rated supply voltage	220 - 240 Vac
Input voltage	180 - 240 Vac 150 - 250 Vdc (L05025)
Mains frequency	50/60 Hz
Output current tolerance	5 %
100 Hz ripple current at full load	<1 %
Power factor at full load	0.98
Standby power	500 mW
Nominal line current at 240 Vac	L05025: 145 mA L05040: 195 mA
Dimming method	linear
Minimum dim level	15 mA - off
Output voltage setting time	1 second
Output isolation	SELV
Surge protection (diff. / comm.)	2 kV / 6 kV
IP classification	IP 20
Circuit lifetime	50,000 hrs at Tc max.
Case dimensions	157 x 42 x 32 mm

## Dimensions



## Inrush current

Mains max. peak inrush at full load	0.4 A*
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\* Tested at 240 Vac, on phase 60° with TTI HA1600A analyzer.

## Maximum number of drivers on automatic circuit breakers

Automatic circuit breaker type	C10	C13	C16	C20	B10	B13	B16	B20
L05025	57	74	91	113	57	74	91	113
L05040	44	57	70	87	44	57	70	87

## Thermal specifications

Ambient temperature range (Ta)	-20° to 40°C*
Maximum case temperature (Tc)	< 65°C**
Storage temperature range	-20 to 50°C

\* -20° to 50°C when mounted on a heat conductive surface

\*\* 80°C when mounted on a heat conductive surface at Ta 50°C

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### 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.

### Overtemperature protection

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

### Active overcurrent protection

Active overcurrent protection to allow hotswapping of LEDs higher than 3 Watt.

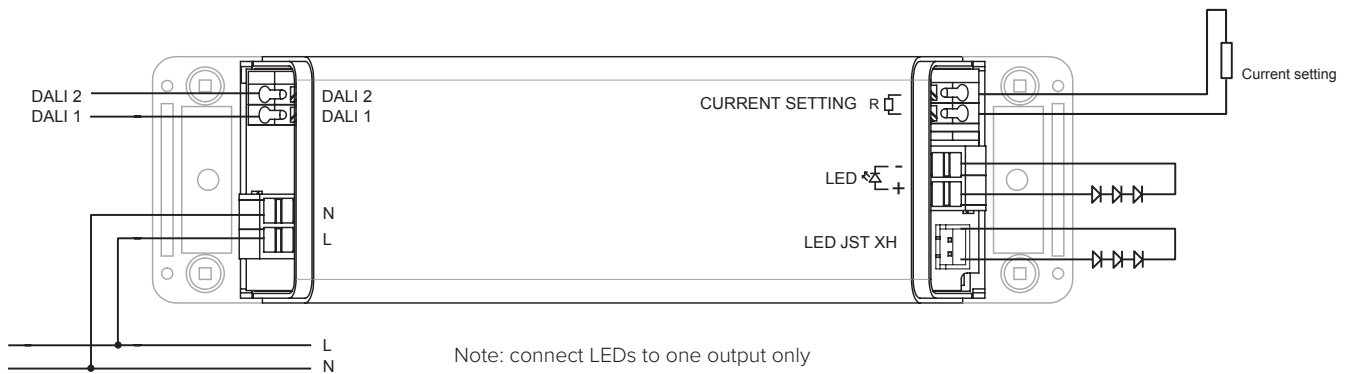
### Short-circuit protection

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

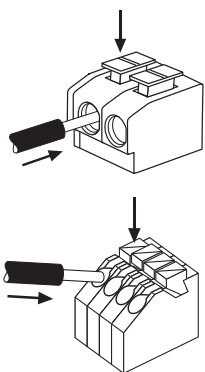
### No-load operation

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

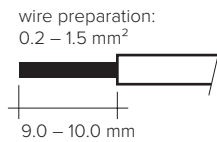
## Wiring diagram



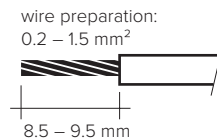
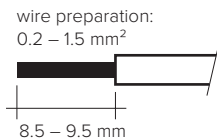
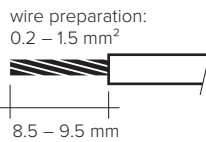
### Wiring of device



#### Solid

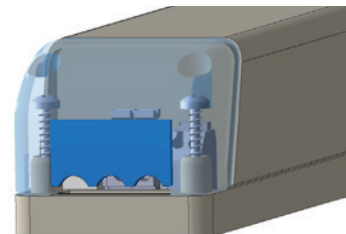


#### Stranded



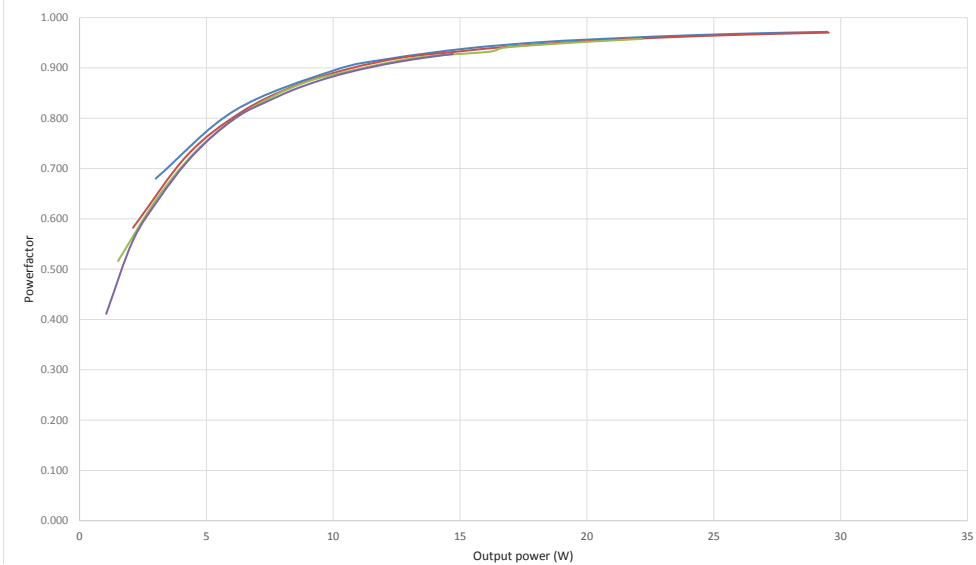
### Strain relief

The strain relief insert can be reversed or removed to accommodate wiring of various diameters.

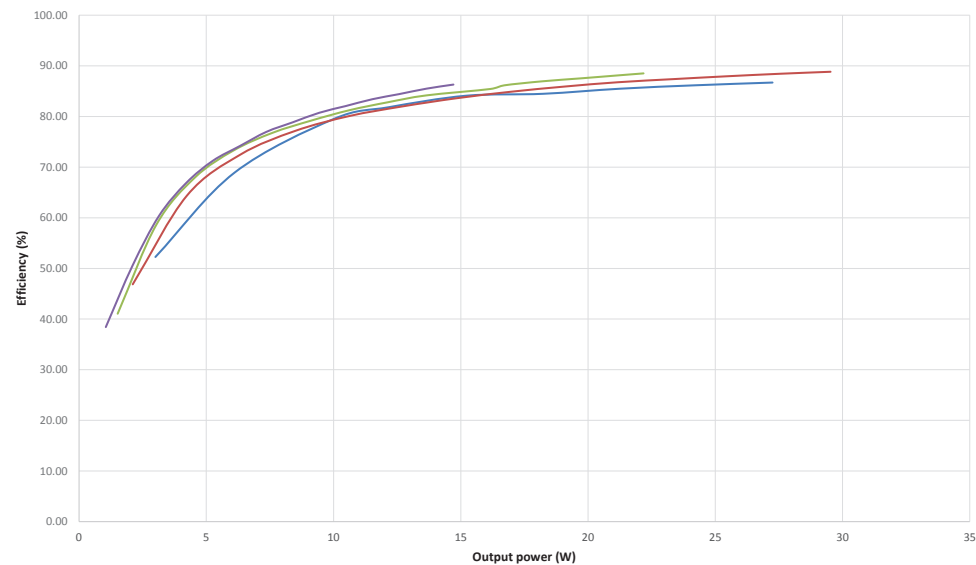


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### Power factor L05025

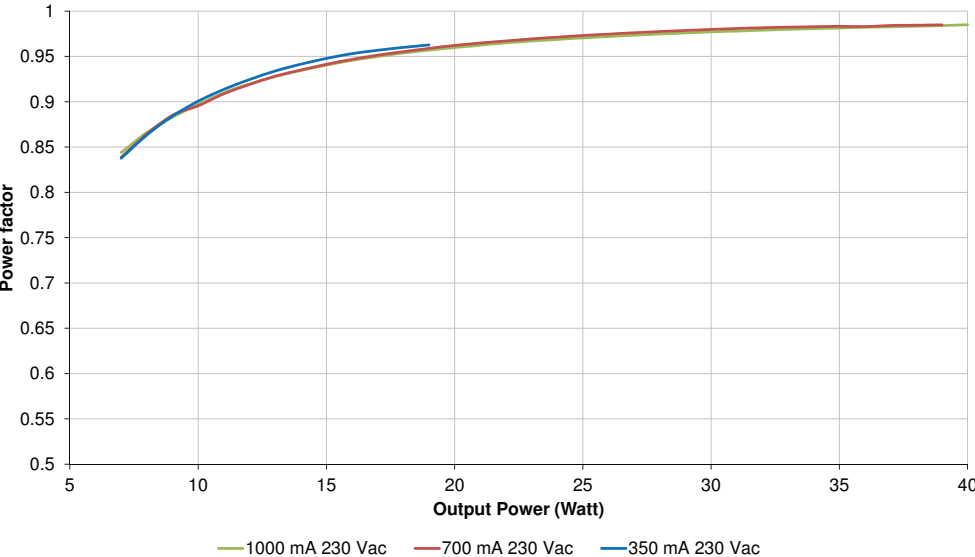


### Efficiency L05025

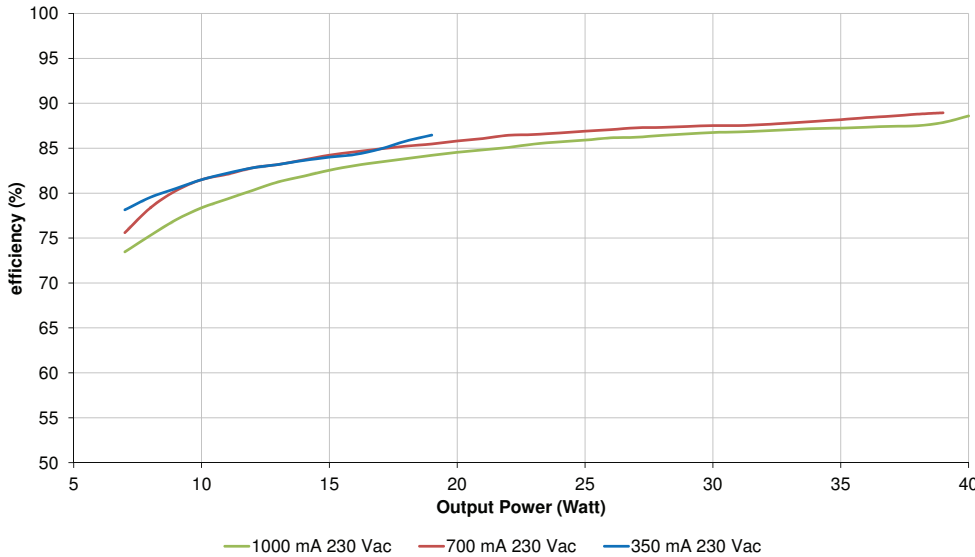


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Power factor L05040



Efficiency L05040



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## Harmonics L05025 / L05040 (limit according to IEC 61000-3-2 table 2)



## Output current vs resistance

Resistance (kΩ)	Output current (mA)
1000	100
510	150
412	200
332	250
270	300
220	350
160	400
124	450
100	500
75	550
56	600
43	650
33	700
27	750
22	800
18	850
15	900
12	950
10	1000

## Ordering data

Part	Part number	Packaging carton	Multibox carton	Weight per piece
L05025 LED Driver 30W, 7 - 43 Vdc, 100 - 1000 mA	L05025	50 pieces	150 pieces	165 g
L05040 LED Driver 40W, 7 - 55 Vdc, 100 - 1000 mA	L05040	50 pieces	150 pieces	215 g

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