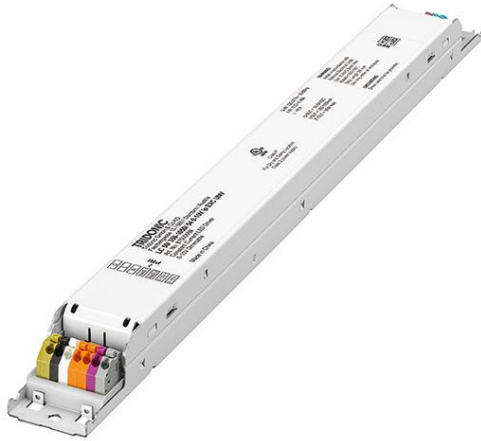


**Driver LC 50W 350-1050mA 54V 0-10V Ip EXC UNV**

Linear excite series (US applications)

**Product description**

- \_ Constant current LED Driver
- \_ Only for US applications
- \_ Dimmable via 0 ... 10 V
- \_ Dimming range 1 to 100 %
- \_ Class 2
- \_ UL Listed Class P
- \_ FCC Part 15
- \_ Adjustable output current between 350 and 1,050 mA via ready2mains Programmer or I-SELECT 2 plugs
- \_ Max. output power 50 W
- \_ Up to 90.6 % efficiency
- \_ Nominal life-time up to 100,000 h
- \_ 5-year guarantee

**Housing properties**

- \_ Low profile metal casing with white cover
- \_ Type of protection IP20
- \_ Dry and damp location

**Functions**

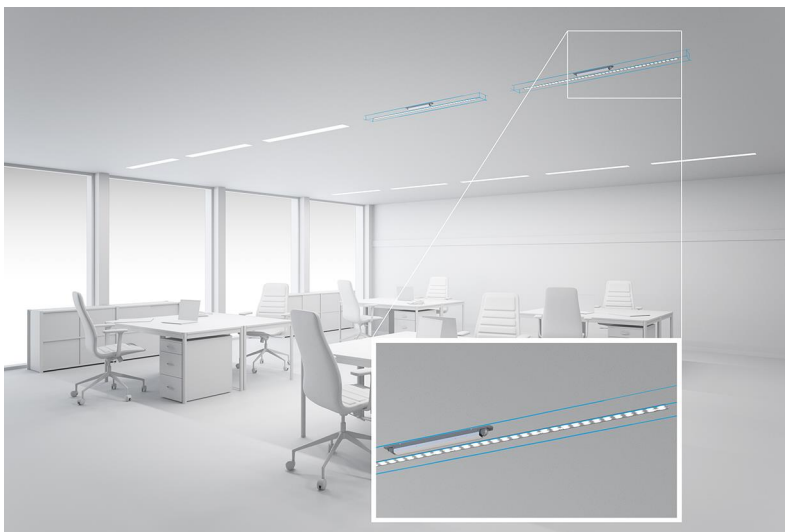
- \_ Adjustable output current in 1-mA-steps (ready2mains, I-SELECT 2)
- \_ 0 – 10 V dimming interface
- \_ Protective features (overtemperature, short-circuit, overload, no-load, input voltage range)

**Benefits**

- \_ Operating window for maximum compatibility
- \_ Added energy savings with dimming via 0 ... 10 V interface
- \_ Configuration via ready2mains and I-SELECT 2
- \_ Tailor your dimming response with either Linear or Logarithmic Dimming Curves

**Typical applications**

- \_ For linear/area lighting in office, education, healthcare, and general lighting applications

**Website**

<http://www.tridonic.com/87500688>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



Decorative

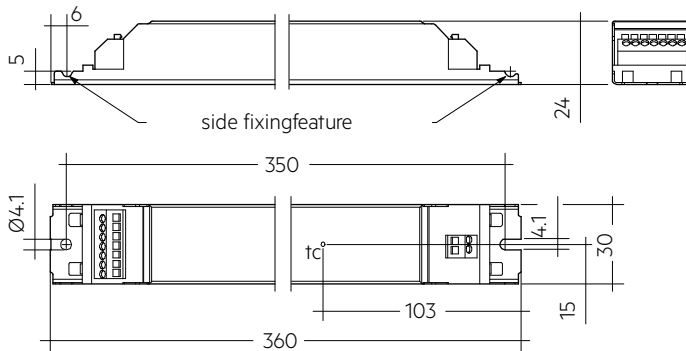


High bay

**Driver LC 50W 350-1050mA 54V 0-10V Ip EXC UNV**

Linear excite series (US applications)

The complete data sheet for this product is available in the Downloads section.

**Ordering data**

Type	Article number	Packaging, carton	Packaging, low volume	Packaging, high volume	Weight per pc.
LC 50/ 350-1050/ 54 0-10V Ip EXC UNV	87500688	20 pc(s).	260 pc(s).	1,560 pc(s).	0.352 kg

**Technical data**

Rated supply voltage	120 – 277 V
AC voltage range	108 – 305 V
Mains frequency	50 / 60 Hz
Typ. current (at 120 V, 60 Hz, full load) <sup>①②</sup>	474 mA
Typ. current (at 277 V, 60 Hz, full load) <sup>①②</sup>	213 mA
Leakage current (at 120 V, 60 Hz, full load) <sup>①②</sup>	< 700 µA
Leakage current (at 277 V, 60 Hz, full load) <sup>①②</sup>	< 700 µA
Max. input power (at 120 V, 60 Hz, full load)	56.3 W
Max. input power (at 277 V, 60 Hz, full load)	55.2 W
Typ. efficiency (at 120 V, 60 Hz, full load) <sup>②</sup>	89.4 %
Typ. efficiency (at 277 V, 60 Hz, full load) <sup>②</sup>	90.6 %
λ (at 120 V, 60 Hz, full load) <sup>①</sup>	0.99
λ (at 277 V, 60 Hz, full load) <sup>①</sup>	0.94C
Typ. input current in no-load operation (at 120 V, 60 Hz)	16 mA
Typ. input current in no-load operation (at 277 V, 60 Hz)	30 mA
Typ. input power in no-load operation (at 120 V, 60 Hz)	0.5 W
Typ. input power in no-load operation (at 277 V, 60 Hz)	0.7 W
In-rush current (peak / duration at 120 V)	26.1 A / 197 µs
In-rush current (peak / duration at 277 V)	62.6 A / 164 µs
THD (at 120 V, 60 Hz, full load) <sup>①</sup>	< 10 %
THD (at 277 V, 60 Hz, full load) <sup>①</sup>	< 10 %
Starting time (full load) <sup>①</sup>	≤ 700 ms
Turn off time at full load	≤ 30 ms
Hold time (power failure, full load)	< 20 ms
Output current tolerance <sup>①③</sup>	± 5 %
Max. output current peak (non-repetitive)	≤ output current + 35 %
Output LF current ripple (< 120 Hz)	± 5 %
Output P_ST_LM	≤ 1
Output SVM	≤ 0.4
Max. output voltage (U-OUT)	60 V
Dimming range	1 – 100 %
Mains surge capability (between L - N)	2.5 kV
Mains surge capability (between L/N - PE)	2.5 kV
Surge voltage at output side (against PE)	500 V
Type of protection	IP20
Life-time	up to 100,000 h
Dimensions L x W x H	360 x 30 x 24 mm

**Approval marks****Standards**

UL 8750, CSA C22.2, FCC PART 15

**Specific technical data**

Type	Output current <sup>④⑤</sup>	Min. forward voltage	Max. forward voltage	Max. output power (at 120 V, 60 Hz, full load)	Typ. power consumption (at 120 V, 60 Hz, full)	Typ. current consumption (at 120 V, 60 Hz, full)	Max. output power (at 277 V, 60 Hz, full load)	Typ. power consumption (at 277 V, 60 Hz, full)	Typ. current consumption (at 277 V, 60 Hz, full)	t <sub>c</sub> point max. <sup>⑥</sup>	Ambient temperature T <sub>a</sub>	I-SELECT 2 resistor value <sup>⑥</sup>
LC 50/ 350-1050/ 54 0-10V Ip EXC UNV	350 mA	18 V	54.0 V	18.9 W	23.2 W	194 mA	18.9 W	23.4 W	110 mA	70 °C	-25 ... +55 °C	-
LC 50/ 350-1050/ 54 0-10V Ip EXC UNV	400 mA	18 V	54.0 V	21.6 W	25.8 W	214 mA	21.6 W	26.0 W	117 mA	70 °C	-25 ... +55 °C	12.50 kΩ
LC 50/ 350-1050/ 54 0-10V Ip EXC UNV	450 mA	18 V	54.0 V	24.3 W	29.2 W	242 mA	24.3 W	29.2 W	127 mA	70 °C	-25 ... +55 °C	11.11 kΩ
LC 50/ 350-1050/ 54 0-10V Ip EXC UNV	500 mA	18 V	54.0 V	27.0 W	31.6 W	276 mA	27.0 W	31.4 W	134 mA	70 °C	-25 ... +55 °C	10.00 kΩ
LC 50/ 350-1050/ 54 0-10V Ip EXC UNV	550 mA	18 V	54.0 V	29.7 W	34.7 W	302 mA	29.7 W	34.6 W	143 mA	70 °C	-25 ... +55 °C	9.09 kΩ
LC 50/ 350-1050/ 54 0-10V Ip EXC UNV	600 mA	18 V	54.0 V	32.4 W	37.4 W	319 mA	32.4 W	37.1 W	146 mA	70 °C	-25 ... +55 °C	8.33 kΩ
LC 50/ 350-1050/ 54 0-10V Ip EXC UNV	650 mA	18 V	54.0 V	35.1 W	40.7 W	342 mA	35.1 W	40.0 W	156 mA	70 °C	-25 ... +55 °C	7.69 kΩ
LC 50/ 350-1050/ 54 0-10V Ip EXC UNV	700 mA	18 V	54.0 V	37.8 W	43.2 W	369 mA	37.8 W	43.1 W	166 mA	70 °C	-25 ... +55 °C	7.14 kΩ
LC 50/ 350-1050/ 54 0-10V Ip EXC UNV	750 mA	18 V	54.0 V	40.5 W	46.0 W	392 mA	40.5 W	45.3 W	174 mA	70 °C	-25 ... +55 °C	6.67 kΩ
LC 50/ 350-1050/ 54 0-10V Ip EXC UNV	800 mA	18 V	54.0 V	43.2 W	48.8 W	416 mA	43.2 W	48.0 W	183 mA	70 °C	-25 ... +55 °C	6.25 kΩ
LC 50/ 350-1050/ 54 0-10V Ip EXC UNV	850 mA	18 V	54.0 V	45.9 W	51.8 W	440 mA	45.9 W	51.0 W	192 mA	70 °C	-25 ... +55 °C	5.88 kΩ
LC 50/ 350-1050/ 54 0-10V Ip EXC UNV	900 mA	18 V	54.0 V	48.6 W	54.8 W	466 mA	48.6 W	54.0 W	204 mA	70 °C	-25 ... +55 °C	5.56 kΩ
LC 50/ 350-1050/ 54 0-10V Ip EXC UNV	950 mA	18 V	52.6 V	50.0 W	56.2 W	479 mA	50.0 W	55.1 W	207 mA	70 °C	-25 ... +55 °C	5.26 kΩ
LC 50/ 350-1050/ 54 0-10V Ip EXC UNV	1,000 mA	18 V	50.0 V	50.0 W	56.1 W	479 mA	50.0 W	55.1 W	207 mA	70 °C	-25 ... +55 °C	5.00 kΩ
LC 50/ 350-1050/ 54 0-10V Ip EXC UNV	1,050 mA	18 V	47.6 V	50.0 W	56.1 W	478 mA	50.0 W	55.1 W	207 mA	70 °C	-25 ... +55 °C	0.00 kΩ

① Valid at 100 % dimming level.

② Depending on the selected output current.

③ Output current is mean value.

④ The table only lists a number of possible operating points but does not cover each single point. The output current can be set within the total value range in 1-mA-steps.

⑤ 5-year guarantee.

⑥ Not compatible with I-SELECT (generation 1). Calculated resistor value.