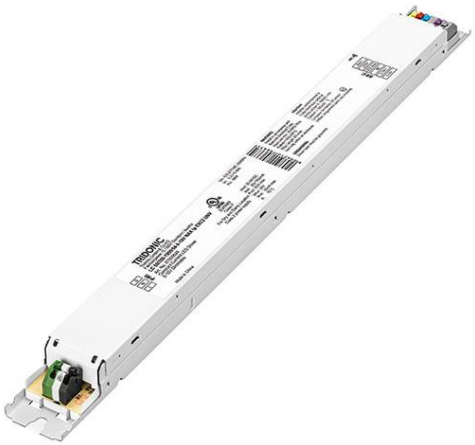
TRIDONIC

Driver LC 50W 350–1050mA 0-10V NFC AUX lp EXC2 UNV

Linear excite NFC series (US applications)



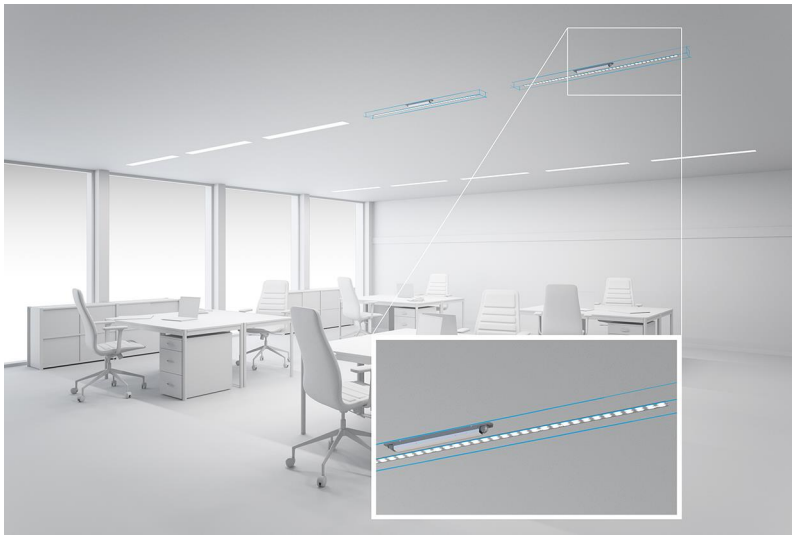
Product description
_ Constant current LED Driver
_ Dimmable via 0 ... 10 V interface (incl. stand-by)
_ Dimming range 1 to 100 %
_ Class 2
_ UL Listed Class P
_ FCC Part 15
_ Meets UL 8750 SF3.1
_ Adjustable output current between 350 and 1,050 mA via NFC
_ Max. output power 50 W
_ Up to 87.6 % efficiency
_ Nominal life-time up to 100,000 h
_ 5-year guarantee

Housing properties
_ Casing: metal, white
_ Type of protection IP20
_ Dry and damp location

Functions
_ Adjustable output current in 1-mA-steps (NFC)
_ AUX output
_ Fade-off time programmable
_ 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
_ Configurable via NFC
_ Tailor your dimming response with either Linear, Logarithmic or Square Dimming Curves

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



Website
http://www.tridonic.com/87500849

Spotlights | Downlights | **Linear** | **Area** | Floor | Wall | **Free-standing** | Street | Decorative | High bay

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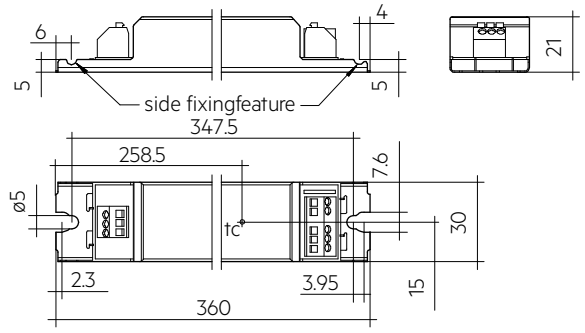
The complete data sheet for this product is available in the Downloads section.



Ordering data

Type	Article number	Packaging, carton	Packaging, low volume	Packaging, high volume	Weight per pc.
LC 50/350-1050/54 0-10V NAX lp EXC2 UNV	**87500849**	10 pc(s).	180 pc(s).	1,260 pc(s).	0.284 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) ①②	488 mA
Typ. current (at 277 V, 60 Hz, full load) ①②	217 mA
Leakage current (at 120 V, 60 Hz, full load) ①②	< 750 µA
Leakage current (at 277 V, 60 Hz, full load) ①②	< 750 µA
Max. input power (at 120 V, 60 Hz, full load)	59 W
Max. input power (at 277 V, 60 Hz, full load)	57.1 W
Typ. efficiency (at 120 V, 60 Hz, full load) ②	85.1 %
Typ. efficiency (at 277 V, 60 Hz, full load) ②	87.6 %
λ (at 120 V, 60 Hz, full load) ①	0.99
λ (at 277 V, 60 Hz, full load) ①	0.95
Typ. power input on stand-by (at 120 V, 60 Hz) ③	< 0.5 W
Typ. power input on stand-by (at 277 V, 60 Hz) ③	< 0.5 W
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)	1.44 W
Typ. input power in no-load operation (at 277 V, 60 Hz)	1.28 W
In-rush current (peak / duration at 120 V)	4 A / 27 µs
In-rush current (peak / duration at 277 V)	15 A / 19 µs
THD (at 120 V, 60 Hz, full load) ①	< 10 %
THD (at 277 V, 60 Hz, full load) ①	< 20 %
Starttime (at 120V, 60 Hz, full load) ①	≤ 500 ms
Starttime (at 277V, 60 Hz, full load) ①	≤ 500 ms
Turn off time at full load	< 30 ms
Hold time (power failure, full load)	< 20 ms
Output current tolerance ①④	± 5 %
Max. output current peak (non-repetitive)	≤ output current + 5 %
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 kV
Mains surge capability (between L/N - PE)	2.5 kV
Surge voltage at output side (against PE)	500 V
Type of protection	IP20
Dimensions L x W x H	360 x 30 x 21 mm

Approval marks

RoHS

Standards

UL 8750, CSA C22.2, FCC PART 15

Specific technical data

Type	Output current ⑤⑥	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	tc point max.	Ambient temperature ta
LC 50/350-1050/54 0-10V NAX lp EXC2 UNV	350 mA	20 V	54.0 V	18.9 W	22.0 W	185 mA	18.9 W	22.9 W	103 mA	60 °C	-25 … +55 °C
LC 50/350-1050/54 0-10V NAX lp EXC2 UNV	400 mA	20 V	54.0 V	21.8 W	25.1 W	211 mA	21.8 W	25.3 W	110 mA	60 °C	-25 … +55 °C
LC 50/350-1050/54 0-10V NAX lp EXC2 UNV	450 mA	20 V	54.0 V	24.2 W	27.8 W	233 mA	24.2 W	28.6 W	121 mA	60 °C	-25 … +55 °C
LC 50/350-1050/54 0-10V NAX lp EXC2 UNV	500 mA	20 V	54.0 V	27.1 W	31.3 W	261 mA	27.1 W	31.4 W	129 mA	60 °C	-25 … +55 °C
LC 50/350-1050/54 0-10V NAX lp EXC2 UNV	550 mA	20 V	54.0 V	29.8 W	34.0 W	282 mA	29.8 W	34.3 W	139 mA	65 °C	-25 … +55 °C
LC 50/350-1050/54 0-10V NAX lp EXC2 UNV	600 mA	20 V	54.0 V	32.7 W	36.7 W	305 mA	32.7 W	37.3 W	149 mA	65 °C	-25 … +55 °C
LC 50/350-1050/54 0-10V NAX lp EXC2 UNV	650 mA	20 V	54.0 V	35.0 W	39.8 W	331 mA	35.0 W	39.5 W	156 mA	65 °C	-25 … +55 °C
LC 50/350-1050/54 0-10V NAX lp EXC2 UNV	700 mA	20 V	54.0 V	38.1 W	44.0 W	366 mA	38.1 W	43.1 W	168 mA	65 °C	-25 … +55 °C
LC 50/350-1050/54 0-10V NAX lp EXC2 UNV	750 mA	20 V	54.0 V	40.8 W	46.5 W	386 mA	40.8 W	45.8 W	178 mA	65 °C	-25 … +55 °C
LC 50/350-1050/54 0-10V NAX lp EXC2 UNV	800 mA	20 V	54.0 V	43.5 W	49.1 W	411 mA	43.5 W	49.0 W	188 mA	65 °C	-25 … +55 °C
LC 50/350-1050/54 0-10V NAX lp EXC2 UNV	850 mA	20 V	54.0 V	46.2 W	52.9 W	443 mA	46.2 W	51.8 W	198 mA	70 °C	-25 … +55 °C
LC 50/350-1050/54 0-10V NAX lp EXC2 UNV	900 mA	20 V	54.0 V	48.6 W	55.9 W	462 mA	48.6 W	54.5 W	207 mA	70 °C	-25 … +55 °C
LC 50/350-1050/54 0-10V NAX lp EXC2 UNV	950 mA	20 V	52.6 V	49.8 W	57.2 W	473 mA	49.8 W	56.2 W	213 mA	70 °C	-25 … +55 °C
LC 50/350-1050/54 0-10V NAX lp EXC2 UNV	1,000 mA	20 V	50.0 V	50.0 W	57.7 W	478 mA	50.0 W	56.3 W	213 mA	75 °C	-25 … +55 °C
LC 50/350-1050/54 0-10V NAX lp EXC2 UNV	1,050 mA	20 V	47.6 V	50.0 W	57.8 W	479 mA	50.0 W	57.0 W	216 mA	75 °C	-25 … +55 °C

① Valid at 100 % dimming level.
② Depending on the selected output current.
③ With load on AUX port higher.

④ Output current is mean value.
⑤ 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.
⑥ 5-year guarantee.