

LED Driver

Driver ADVANCED

Reliable and straightforward



TRIDONIC

ADVANCED

Reliable and straightforward

Positioning in the Tridonic portfolio

ESSENCE

Cost-effective

ADVANCED

Simplicity itself

EXCITE

Flexible

PREMIUM

Convenient

The LED Driver ADVANCED series offers the best compromise between attractive price and professional performance. While focusing on the core functionalities, the tdriver ADVANCED series offers superior quality and performance ensuring a reliable operation of your LED module.

While the LED Driver ADVANCED supports most common LED modules, the series fits perfectly to the LED module SLE series as well as QLE and LLE, guaranteeing an optimal performance and lifetime of your Tridonic LED light engine.

At a glance: Driver ADVANCED

- Constant current (fixC) or adjustable current (flexC) Fixed output built-in LED Driver
- Output current (250–2,450 mA)
- Max. output power (10–150 W)
- Nominal lifetime up to 100,000 h (Ip) or 50,000 h (SR, SC and C)
- Indoor SELV & non-SELV installations
- Linear Low Profile (38, 53, 57, 69, 71, 81 W) Version DC operation suitable for emergency lighting using in central battery systems per EN 50172
- For luminaires of protection class I and protection class II
- Temperature protection as per EN 61347-2-13 C5e
- Overtemperature-, Overload-, Short-circuit- and No-load protection
- 5-year guarantee

Overview of casing types

Linear Low Profile/Slim



For area luminaires and linear, decorative and free-standing luminaires

Built-in



For spotlights, floor-wall luminaires

Independent



For downlights, spotlights

Stretched Compact



For downlights, spotlights, floor-wall luminaires

in-track



For 230 V Track systems

ADVANCED

Driver ADVANCED | Stretched Compact

Designation	Output current (mA)	Output power (W)	Output voltage range (V)	Input voltage (V)	Efficiency (%)	Size (mm)	Order No.
LC 15W 350mA fixC SC ADV	350	15	21.4-44	220-240	83	97 x 43 x 22.5	87500448
LC 20W 500mA fixC SC ADV	500	20	21.4-44	220-240	83	97 x 43 x 22.5	87500449
ACU SC 43x22.5mm CLIP-ON SR SET (Optional clip-on strain relief set for Stretched Compact housing)						30 x 43 x 22.5	28001534
LC 25W 600mA fixC SC ADV	600	25	21.4-44	220-240	88	97 x 43 x 30	87500341
LC 30W 700mA fixC SC ADV	700	30	21.4-44	220-240	88	97 x 43 x 30	87500342
LC 35W 700mA fixC SC ADV	700	35	25-50	220-240	88	97 x 43 x 30	87500450
LC 35W 800mA fixC SC ADV	800	35	25-45	220-240	89	97 x 43 x 30	87500343
LC 40W 900mA fixC SC ADV	900	40	25-45	220-240	89	97 x 43 x 30	87500344
LC 47W 1050mA fixC SC ADV	1,050	47	25-45	220-240	89	130 x 43 x 30	87500451
LC 60W 1050mA fixC SC ADV	1,050	47	31-57	220-240	89	150 x 43 x 30	87500452
ACU SC 43x30mm CLIP-ON SR SET (Optional clip-on strain relief set for Stretched Compact housing)						30 x 43 x 30	28001168
ACU SC 15x43x30mm CLIP-ON SR (Optional clip-on strain relief set for Stretched Compact housing)						15 x 43 x 30	28001574

Further details can be found in datasheet.

Designation	Output current (mA)	Output power (W)	Output voltage range (V)	Input voltage (V)	Efficiency (%)	Size (mm)	Order No.
LC 25W 350-600mA flexC SC ADV	350-600	25	27-44	220-240	88	97 x 43 x 30	87500677
LC 35W 500-800mA flexC SC ADV	500-800	35	25-44	220-240	88	97 x 43 x 30	87500678
LC 40W 800-1050mA flexC SC ADV	800-1,050	40	25-42	220-240	88	97 x 43 x 30	87500679
LC 50W 900-1200mA flexC SC ADV	900-1,200	50	27-44	220-240	90	115 x 43 x 30	87500680
LC 60W 1000-1400mA flexC SC ADV	1,000-1,400	60	27-44	220-240	90	130 x 43 x 30	87500681
ACU SC 43x30mm CLIP-ON SR SET (Optional clip-on strain relief set for Stretched Compact housing)						30 x 43 x 30	28001168
ACU SC 15x43x30mm CLIP-ON SR (Optional clip-on strain relief set for Stretched Compact housing)						15 x 43 x 30	28001574

Further details can be found in datasheet.

Driver ADVANCED | Linear Low Profile

Designation	Output current (mA)	Output power (W)	Output voltage range (V)	Input voltage (V _{sc})	Efficiency (%)	Size (mm)	Order No.
SELV							
LC 19W 250-350mA flexC lp ADV	250; 275; 300; 325; 350	19	25-54	220-240	84	230 x 30 x 21	87500585
LC 38W 500-700mA flexC lp ADV	500; 550; 600; 650; 700	38	25-54	220-240	85	280 x 30 x 21	87500498
LC 57W 800-1050mA flexC lp ADV	800; 850; 900; 950; 1,050	57	25-54	220-240	86	280 x 30 x 21	87500500
LC 81W 1200-1750mA flexC lp ADV	1,200; 1,300; 1,400; 1,550; 1,750	81	25-54	220-240	87	360 x 30 x 21	87500502
Non-SELV							
LC 38W 250-350mA flexC lp ADV	250; 275; 300; 325; 350	38	51-109	220-240	89	280 x 30 x 21	87500496
LC 38W 350-500mA flexC lp ADV	350; 375; 400; 450; 500	38	35-75	220-240	88	280 x 30 x 21	87500497
LC 53W 250-350mA flexC lp ADV	250; 275; 300; 325; 350	53	70-150	220-240	90	280 x 30 x 21	87500499
LC 69W 350-500mA flexC lp ADV	350; 375; 400; 450; 500	69	60-138	220-240	91	280 x 30 x 21	87500599
LC 71W 250-350mA flexC lp ADV	250; 275; 300; 325; 350	71	93-217*	220-240	93	280 x 30 x 21	87500501
LC 112W 250-350mA flexC lp ADV	250; 275; 300; 325; 350	112	143-320	220-240	94	360 x 30 x 21	87500619
LC 165W 400-700mA flexC lp ADV	400; 450; 500; 600; 700	165	143-320	220-240	94	360 x 30 x 21	87500620

Further details can be found in datasheet. *For 350mA, the max voltage is 204 V

ADVANCED**Driver ADVANCED | Independent**

Designation	Output current (mA)	Output power (W)	Output voltage range (V)	Input voltage (V _{ac})	Efficiency (%)	Size (mm)	Order No.
SELV							
LC 20W 350/500/700mA flexC SR ADV	350; 500; 700	20	25–50	220–240	85	101.5 x 51 x 29.5	87500621
LC 35W 350/500mA flexC SR ADV	350; 500	35	35–100	220–240	88	159.4 x 82 x 34	87500622
LC 35W 700/800/1050mA flexC SR ADV	700; 800; 1,050	35	25–50	220–240	87.5	159.4 x 82 x 34	87500623
LC 42W 700/900/1050mA flexC SR ADV	700; 900; 1,050	42	30–60	220–240	88.5	159.4 x 82 x 34	87500624
LC 60W 1050/1200/1400mA flexC SR ADV	1,050; 1,200; 1,400	60	21.5–54	220–240	90.5	159.4 x 82 x 34	87500625

Further details can be found in datasheet.

Driver ADVANCED | Built-in

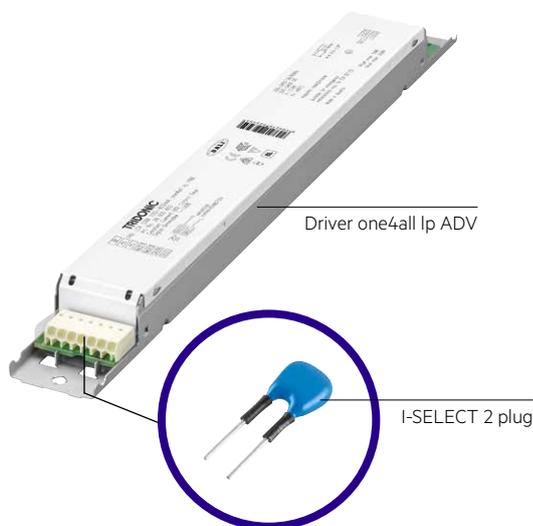
Designation	Output current (mA)	Output power (W)	Output voltage range (V)	Input voltage (V)	Efficiency (%)	Size (mm)	Order No.
LC 25W 600mA fixC C ADV	600	25	21.4–44	220–240	88	103 x 67 x 29.7	87500345
LC 30W 700mA fixC C ADV	700	30	21.4–44	220–240	88	103 x 67 x 29.7	87500346
LC 35W 800mA fixC C ADV	800	35	25–45	220–240	89	103 x 67 x 29.7	87500347
LC 40W 900mA fixC C ADV	900	40	25–45	220–240	89	103 x 67 x 29.7	87500348

Further details can be found in datasheet.

ADVANCED dimming

The first ADVANCED driver with dimming function and adjustable currents

The constant current driver is ideal for simple lighting solutions that require dimming. Two variants are available with 50 and 75 watts, each with a dimming range of 10 to 100 percent. The four output currents can be adjusted easily with I-SELECT 2 plugs. In combination with very high efficiency of up to 90 percent, the DALI dimmable driver offers extremely attractive value for money.



At a glance: Driver ADVANCED Linear Low Profile one4all

- Dimmable built-in constant current LED Driver
- Adjustable output current between 250 and 400 mA via I-SELECT 2 plugs
- Simple configuration with the Tridonic companionSUITE (e.g. corridorFUNCTION, dimmlevel and so on)
- Interfaces: one4all (DALI-2 DT 6, DSI, switchDIM, corridorFUNCTION V2)
Terminal blocks: 0° push terminals
- Dimming range 10 – 100 % (min. 25 mA)
- For luminaires of protection class I and protection class II
- Nominal life-time up to 100,000 h
- 5-year guarantee

NEW	Designation	Output current (mA)	Output power (W)	Output voltage range (V)	Input voltage (V)	Efficiency (%)	Size (mm)	Order No.
	LC 50/250-400/140 o4a Ip ADV	250-400	50	50-140	220-240	90	280 x 30 x 21	87500726
	LC 75/250-400/220 o4a Ip ADV	250-400	75	110-220	220-240	90	280 x 30 x 21	87500728

Further details can be found in datasheet.

in-track Driver for 230 V Track systems

Invisible to the eye, but essential for perfect track lights

With the new in-track driver offering up to 40 watts, Tridonic is making another contribution to miniaturisation. The driver and adapter, available in black or white, can be integrated into a 230V 3-phase track to save space. A separate track box is therefore no longer necessary. Thanks to the wide operating window of 350 to 600 and 500 to 1,050 mA, the in-track driver can be combined with all LED spotlight modules. The output currents can also be adjusted conveniently via I-SELECT 2 plug. In the EXCITE category, adjustments are made by NFC (Near Field Communication).

At a glance: Driver in-track

- Constant current in-track LED Driver
- Adjustable output current between 350–1,050 mA, with I-SELECT 2 plug technology
- EXCITE Version: In-field programming possible with NFC interface
- Low Flicker <5 %
- Black and white versions
- Nominal life-time up to 100,000 h
- 5-year guarantee



Adjustable output current via plug

Setting of phases by rotary wheel

Driver in-track ADVANCED

NEW	Designation	Output current (mA)	Output voltage range (V)	Output power (W)	SELV 60 V	Input voltage (V)	Size (mm)	Order No.
	LC 25/350-600/42 flexC T-B ADV*	350-600	12**-42	25	yes	220-240	230.8 x 31.9 x 42.7	87500787
	LC 25/350-600/42 flexC T-W ADV*							87500789
	LC 40/500-1050/42 flexC T-B ADV*	500-1,050	12**-42***	40	yes	220-240	230.8 x 31.9 x 42.7	87500791
	LC 40/500-1050/42 flexC T-W ADV*							87500790

* Preliminary data, coming in Q4; ** Device operates down to 4 V output voltage. It cannot be guaranteed that harmonics and EMI stay inside the limits. This has to be checked individually. *** 42 V up to 950 mA, 38 V at 1,050 mA

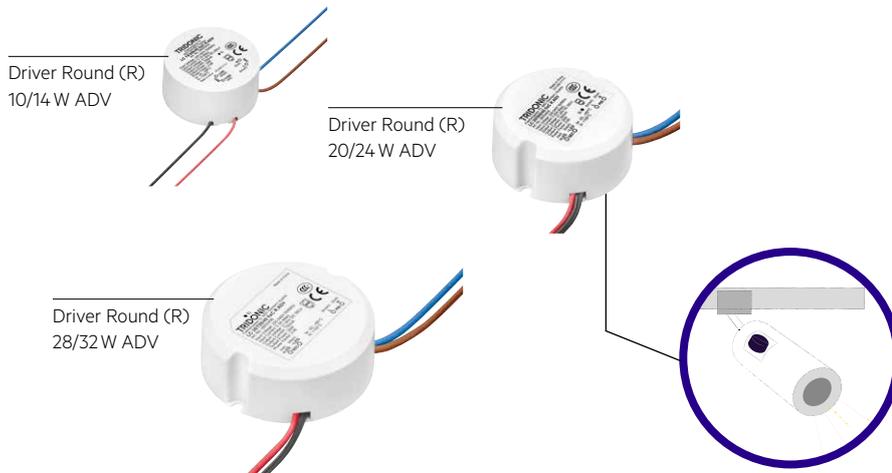
Driver Rund

Design freedom for round spot and downlights

Thanks to its round, compact shape, the driver can be integrated directly into the spotlight head, making cumbersome trackboxes unnecessary. Presentation rooms and architectural spaces in particular benefit in this way from discreet spotlighting. Additional design freedom is provided with durability in extreme ambient temperatures of -20°C up to $+60^{\circ}\text{C}$.

At a glance: Driver Round

- Constant current Fixed output built-in LED Driver
- Typical applications: track light, wall light and other pendent application
- Output current 250–800 mA
- For luminaires of protection class II
- Nominal life-time up to 50,000 h (at t_a 50 °C)
- 5-year guarantee

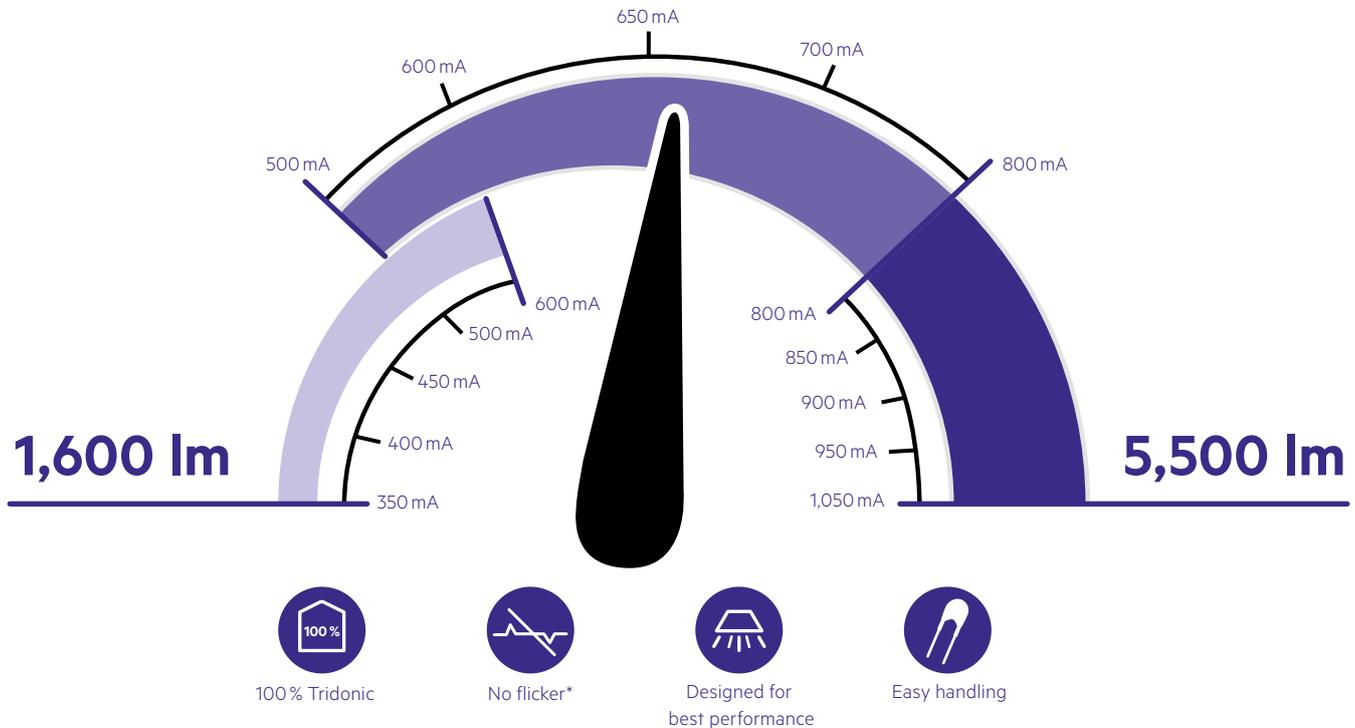


Driver Round

NEW	Designation	Output current (mA)	Output power (W)	Output voltage range (V)	Input voltage (V _{ac})	Efficiency (%)	Size (mm)	Order No.
	LC 10/250/40 fixC R ADV	250	21–40	10	220–240	84	ø42 x 20 mm	28002402
	LC 14/350/40 fixC R ADV	350	21–40	14	220–240	84	ø42 x 20 mm	28002403
	LC 20/500/40 fixC R ADV	500	21–40	20	220–240	85	ø56 x 25 mm	28002404
	LC 24/600/40 fixC R ADV	600	21–40	24	220–240	85	ø56 x 25 mm	28002405
	LC 28/700/40 fixC R ADV	700	21–40	28	220–240	87	ø65 x 25 mm	28002406
	LC 32/800/40 fixC R ADV	800	21–40	28	220–240	87	ø65 x 25 mm	28002407

Bundling brings movement into your spotlight design

Fewer components, more variety



Spotlights can now be manufactured even more efficiently:
Three drivers are sufficient to cover the entire lumen bandwidth of an LED module. The result is maximum flexibility with regard to product design, which goes hand in hand with low storage costs.

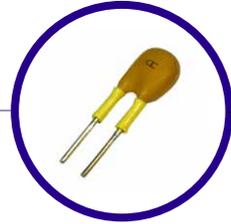
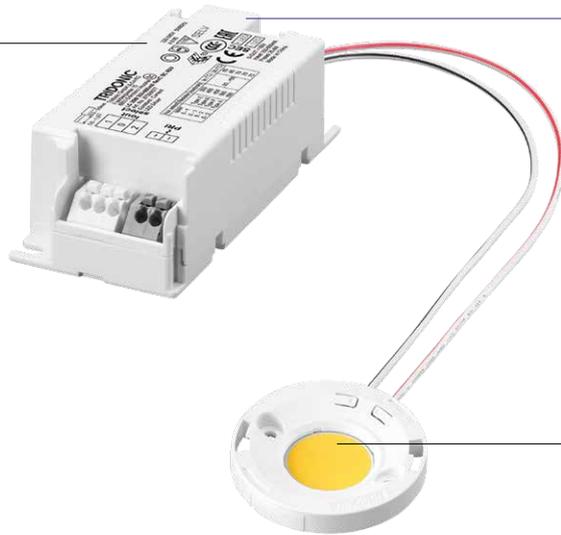
Financial advantages

- Only one LES19 LED module for all common lumen packages for a luminaire
- Easy output current selection by plug, making it possible to use different amounts of luminous flux with one driver
- 100% Tridonic solution for optimum service and warranty

Technical advantages

- Stretched Compact housing just 97 mm in length for the further miniaturisation of spotlights and downlights, with optional strain relief
- *Low ripple current (+/-5 %) for flicker-free luminaires
- Forward voltage that is perfectly attuned for efficient operation of the SLE modules
- Safe electrical connection due to strain relief (optional)

Driver flexC SC ADVANCED
 25 W 350-600 mA
 35 W 500-800 mA
 40 W 800-1,050 mA



ADV Plug



Module

- SLE G6 10 mm 1,200 lm 830 ADV
- SLE G6 15 mm 3,000 lm 830 ADV
- SLE G6 17 mm 4,000 lm 830 ADV
- SLE G6 19 mm 5,000 lm 830 ADV
- SLE G6 23 mm 6,000 lm 830 ADV

Overview of available luminous flux

Bundling: LC flexC ADVANCED driver & SLE G6 830 ADV module

Driver	Module	Luminous flux			
		2,000 lm	3,000 lm	4,000 lm	5,000 lm
LC flexC SC ADV 25W 350 mA 400 mA 450 mA 500 mA 600 mA	SLE G6 10 mm	[Bar chart showing luminous flux range]			
	SLE G6 15 mm	[Bar chart showing luminous flux range]			
	SLE G6 17 mm	[Bar chart showing luminous flux range]			
	SLE G6 19 mm	[Bar chart showing luminous flux range]			
	SLE G6 23 mm	[Bar chart showing luminous flux range]			
LC flexC SC ADV 35W 500 mA 600 mA 650 mA 700 mA 800 mA	SLE G6 10 mm	[Bar chart showing luminous flux range]			
	SLE G6 15 mm	[Bar chart showing luminous flux range]			
	SLE G6 17 mm	[Bar chart showing luminous flux range]			
	SLE G6 19 mm	[Bar chart showing luminous flux range]			
	SLE G6 23 mm	[Bar chart showing luminous flux range]			
LC flexC SC ADV 40W 800 mA 850 mA 900 mA 950 mA 1.500 mA	SLE G6 15 mm	[Bar chart showing luminous flux range]			
	SLE G6 17 mm	[Bar chart showing luminous flux range]			
	SLE G6 19 mm	[Bar chart showing luminous flux range]			
	SLE G6 23 mm	[Bar chart showing luminous flux range]			



Tridonic Setbuilder
 Additional driver / module combinations can be found quickly and easily using the Web Tool from Tridonic.

companionSUITE

Software simplifies parameter setting



deviceGENERATOR

This intuitive software enables users to create individual profiles with ease. This ensures that every driver receives the right setting in the next step. Thanks to regular updates and consistent further development, the software is always up to date.

The web based tool can be opened via: <https://devicegenerator.tridonic.com>



deviceCONFIGURATOR

Using this program, production employees can easily and securely transfer defined settings to the driver. To avoid errors to the greatest extent possible, the deviceCONFIGURATOR has a special function package consisting of a traffic light function and a barcode scan for reliable identification of the driver. There is also the option of checking written parameters via DALI and NFC.

The application is available to download from our website: <https://www.tridonic.com/com/en/software.asp>



deviceANALYSER*

This software was designed to make it easier for luminaire manufacturers to analyse errors in the event of a return. All parameters can be read out using the driver and compared with the original configuration. Deviations, which occurred at the luminaire's place of use, are marked automatically.

* Coming in Autumn 2018

Functionality		deviceGENERATOR	deviceCONFIGURATOR	deviceANALYSER*
NFC	Interface		■	■
	Multiprogramming up to 20 devices		■	
DALI/DALI-2 Interface			■	■
ready2mains Interface				■

Support and advice

From a single source



Engine DLE



Engine CLE



Engine CLE Integrated



Engine LLE-FLEX



Engine SLE



Engine EM ready2apply



Engine LLE



Engine QLE

We will help you to create lighting solutions that are unbeatable in terms of economy and functionality, according to the slogan:
We devote all our energy to your light.

As an international company, Tridonic is represented worldwide by 30 branch offices and partners in 73 countries.



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Light you want to follow.

