

TALEX LED

TALEXconverter ECO



Spotlights



Downlights



Linear



Wide Area



Floor | Wall



Free Standing



Decorative

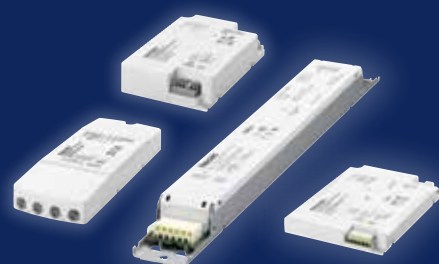


High Bay



A clever move

The situation is perfect. Whatever strategy you are following, the new series of TALEX LED converters will give you a significant advantage. Tridonic offers the right LED converters for any application and any requirement. And the best thing is that despite the rapid pace of development in LED modules you will be ideally prepared for the future with TALEX LED converters. With Tridonic you are making the right move.



Portfolio		Dimming		Fixed Output	
		ECO Leader in efficiency and versatility	BASIC Economic dimming convenience	TOP Optimum performance and high flexibility	TEC Reliable and straightforward
Dimming	Dimming method	Amplitude & PWM	Amplitude only		
	PWM frequency	500Hz			
	Dimming range	1 – 100 %	10 – 100 %		
	DALI DT6 / DSI	yes			
	switchDIM / corridorFUNCTION	yes			
	Phase-cut dimming		yes		
DC operation	Supporting EN 50172	yes		yes	
	DC level fixed			yes	
	DC level adjustable	yes			
Output current	Adjustable	yes		yes	
	Via resistor or plug (I-Select)	yes		yes	
	Via DALI	yes			
	Current resolution	1/25/50 mA ¹⁾		25/50 mA ¹⁾	
	Current tolerances	+/- 3 %	+/- 7.5 %	+/- 5 %	+/- 7.5 %
Functions & Performance	Constant light output over lifetime	yes			
	Intelligent Temperature Guard	yes	yes	yes	yes
	Intelligent Temperature Management	yes		yes ²⁾	
	Standby losses	< 0.2 W			
	Input voltage range	220 – 240 V	220 – 240 V	220 – 240 V	220 – 240 V
	Lifetime up to	100,000 h	50,000 h	100,000 h	50,000 h
	Failure rate	0.1 % / 1,000 h	0.2 % / 1,000 h	0.1 % / 1,000 h	0.2 % / 1,000 h
	Operating temperature range	-25 °C up to +65 °C ³⁾	-25 °C up to +50 °C	-25 °C up to +65 °C ³⁾	-20 °C up to +50 °C
	Warranty	5 years	5 years	5 years	5 years

¹⁾ Depending on the output current range and setting method (I-Select or DALI)

²⁾ For control gears with 35 W and more

³⁾ Varies with the selected output power, detailed values can be found in datasheet

Further functions

- ☐ Install in vertical or horizontal direction (Built-in and low profile version)
- ☐ Totally screw- and tool-free installation of strain reliefs and terminal covers (independent version)
- ☐ Fully SELV compliant

Secure design-in thanks to

- ☐ Overload protection with output current reduction
- ☐ Over temperature protection with automatic shutdown and restore
- ☐ Short circuit protection with automatic restart
- ☐ No load protection, change into constant voltage mode

► For more information and technical data on the entire TALEX product portfolio go to led.tridonic.com.

TALEXconverter LCAI ECO**Top performers in efficiency and versatility**

The TALEXconverter ECO series combines outstanding dimming behaviour with advanced functions such as luminous flux compensation and thermal monitoring of the LED module. The TALEXconverter ECO series can be flexibly adapted to the module parameters for optimum operation of your luminaire.

The TALEXconverter ECO series makes the design-in process for TALEXmodule SLE, DLE, LLE, QLE and CLE child's play. The LED converter is automatically adapted to the module via the module wiring, guaranteeing reliable operation over the life-time for your Tridonic LED light engine. The LED converter can also adapt to all other LED modules so with the TALEXconverter ECO series you always have the right solution in your hands.

▼ At a glance: TALEXconverter ECO

- ___ Recessed and surface-mounted casings for all standard converter types
- ___ Certification: CE/ENEC/RCM/CQC
- ___ Stepless dimming from 100 % to 1 %
- ___ Combined amplitude and PWM dimming for stepless dimming without LED colour shifts even at low dimming values
- ___ Adjustable output current via resistor or DALI with low output current tolerance
- ___ Activatable luminous flux compensation throughout the life of the LED module
- ___ Thermal monitoring of the LED module possible via external sensor
- ___ Suitable for emergency lighting systems with central battery according to EN 50172
- ___ Surface-mounted casing with loop-through capability for power and DALI connections

**TALEXconverter ECO Built-in**

Designation	Output current	Output power*	Output voltage range*	Input voltage	Size	Order No.
LCAI 10W 150mA-400mA ECO C	150–400 mA	10 W	< 60 V	220~240 V	105 x 70 x 28.3 mm	28000130
LCAI 10W 350mA-900mA ECO C	350–900 mA	10 W	< 60 V	220~240 V	105 x 70 x 28.3 mm	28000131
LCAI 20W 350mA-900mA ECO C	350–900 mA	20 W	< 60 V	220~240 V	105 x 70 x 28.3 mm	28000122
LCAI 35W 350mA-900mA ECO C flat	350–900 mA	35 W	< 120 V	220~240 V	140 x 100 x 15 mm	28000336
LCAI 35W 350mA-900mA ECO C	350–900 mA	35 W	< 120 V	220~240 V	120 x 70 x 28.3 mm	28000124
LCAI 35W 900mA-1750mA ECO C	900–1,750 mA	35 W	< 60 V	220~240 V	120 x 70 x 28.3 mm	28000126
LCAI 55W 900mA-1750mA ECO C	900–1,750 mA	55 W	< 60 V	220~240 V	125 x 85 x 28.3 mm	28000128
LCAI 100W 900mA-1750mA ECO C	900–1,750 mA	100 W	< 60 V	220~240 V	140 x 100 x 28.3 mm	28000137

* Depending on the selected output current. Further details can be found in datasheet.

TALEXconverter ECO Independent

Designation	Output current	Output power*	Output voltage range*	Input voltage	Size	Order No.
LCAI 20W 350mA-900mA ECO SR	350–900 mA	20 W	< 60 V	220~240 V	200 x 70 x 31 mm	28000123
LCAI 35W 350mA-900mA ECO SR	350–900 mA	35 W	< 120 V	220~240 V	220 x 85 x 31 mm	28000125
LCAI 35W 900mA-1750mA ECO SR	900–1,750 mA	35 W	< 60 V	220~240 V	220 x 85 x 31 mm	28000127
LCAI 55W 900mA-1750mA ECO SR	900–1,750 mA	55 W	< 60 V	220~240 V	220 x 85 x 31 mm	28000129
LCAI 100W 900mA-1750mA ECO SR	900–1,750 mA	100 W	< 120 V	220~240 V	235 x 100 x 31 mm	28000256

* Depending on the selected output current. Further details can be found in datasheet.

TALEXconverter ECO Linear Low Profile

Designation	Output current	Output power*	Output voltage range*	Input voltage	Size	Order No.
LCAI 20W 150mA-400mA ECO lp	150–400 mA	20 W	< 60 V	220~240 V	280 x 30 x 21 mm	28000132
LCAI 20W 350mA-550mA ECO lp	350–550 mA	20 W	< 60 V	220~240 V	280 x 30 x 21 mm	28000841
LCAI 35W 150mA-400mA ECO lp	150–400 mA	35 W	< 250 V	220~240 V	360 x 30 x 21 mm	28000133
LCAI 65W 150mA-400mA ECO lp	150–400 mA	65 W	< 250 V	220~240 V	360 x 30 x 21 mm	28000134
LCAI 35W 900mA-1750mA ECO lp	900–1,750 mA	35 W	< 60 V	220~240 V	360 x 30 x 21 mm	28000138
LCAI 65W 900mA-1750mA ECO lp	900–1,750 mA	65 W	< 120 V	220~240 V	360 x 30 x 21 mm	28000139

* Depending on the selected output current. Further details can be found in datasheet.

TALEXconverter ECO slim

Designation	Output current	Output power*	Output voltage range*	Input voltage	Size	Order No.
LCAI 15W 150mA-400mA ECO slim	150–400 mA	15 W	< 60 V	220~240 V	145 x 51 x 29.5 mm	28000445

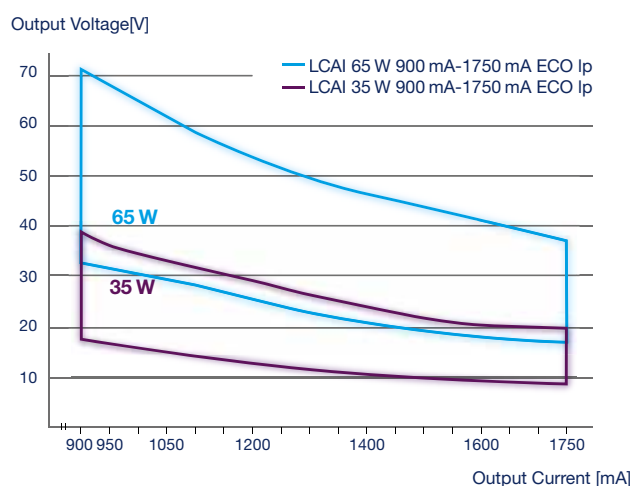
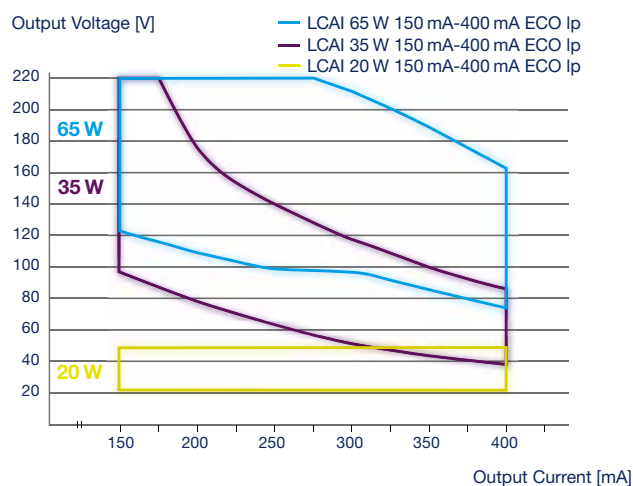
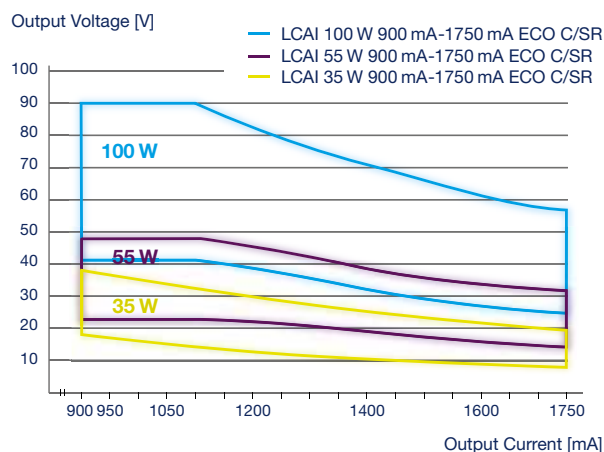
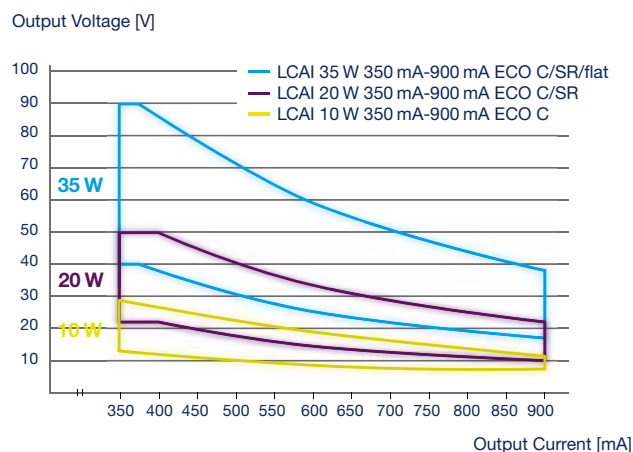
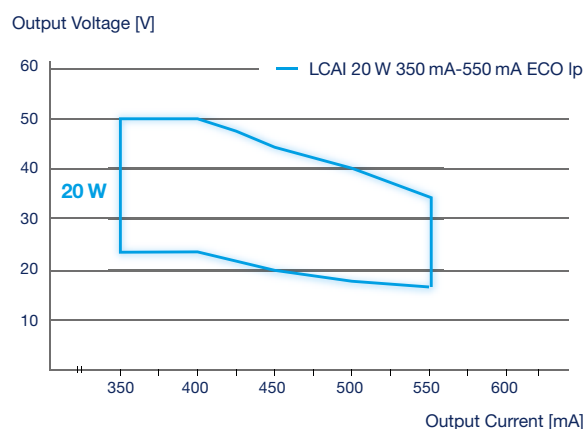
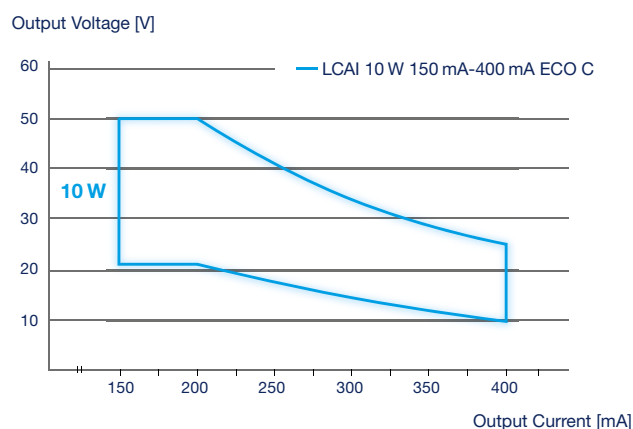
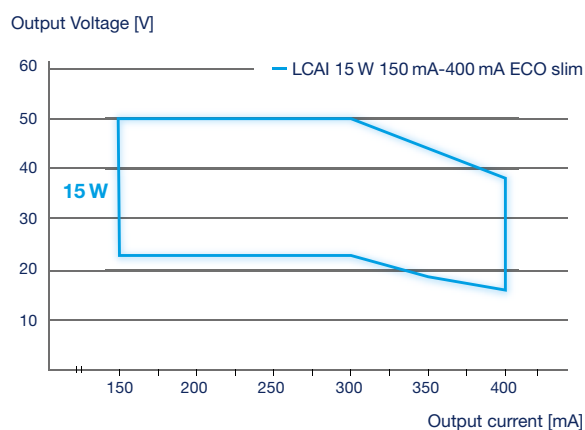
* Depending on the selected output current. Further details can be found in datasheet.

Operating window TALEXconverter ECO

The diagrams show the forward voltage ranges as a function of the output current. The output current can be set via DALI in 1mA steps or in the hardware via the I-Select resistor in 25mA¹⁾ or 50mA²⁾ steps. The values shown are guide values only; detailed values are given in the data sheets.

¹⁾for converters with 150–400mA or 350–900mA output current range

²⁾for converters with 900–1,750mA output current range



Support and advice from a single source

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.



TALEXengine DLE



TALEXengine SLE



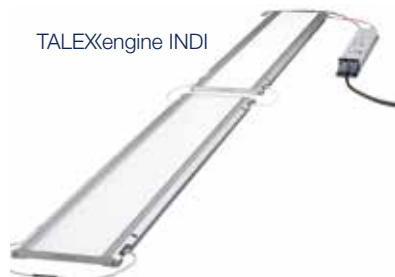
TALEXengine FLE



TALEXengine CLE



TALEXengine LLE



TALEXengine INDI



TALEXengine QLE

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.

