

# CC LINEAR SIMPLE FIX



## EASYLINE SIMPLE FIX L-LV

**186414, 186429**

### Typical Applications

Built-in in linear luminaires for

- Office lighting

### EasyLine Simple Fix L-LV

- **VERY LOW RIPPLE CURRENT: < 3%**
- **SELV**
- **LONG SERVICE LIFE:  
UP TO 50,000 HRS.**
- **PRODUCT GUARANTEE: 5 YEARS**



## EasyLine Simple Fix L-LV

### Product features

- Linear casing shape

### Electrical features

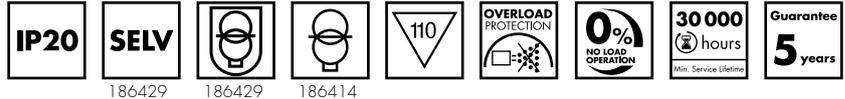
- Mains voltage: 220–240 V  $\pm 10\%$
- Mains frequency: 50–60 Hz
- Push-in terminals: 0.2–1.5 mm<sup>2</sup>
- Power factor at full load: > 0.9 C
- Open circuit voltage ( $U_{max.}$ ): 95 V (186429) or 130 V (186414)
- Secondary side switching of LED modules is not allowed.

### Safety features

- Electronic short-circuit protection
- Overload protection
- Protection against "no load" operation
- Degree of protection: IP20
- Protection class I
- SELV (186429)

### Packaging units

Ref. No.	Packaging unit		
	Pieces per box	Boxes per pallet	Weight g
186414	20	126	200
186429	20	112	200



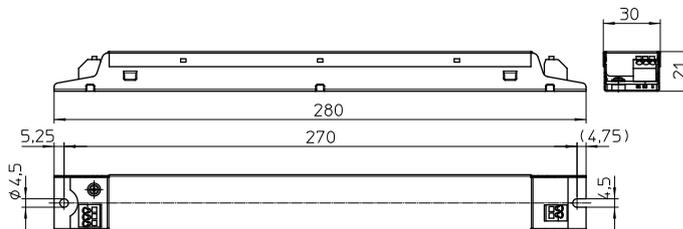
### Applied standards

- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 61000-3-2
- EN 61000-3-3
- EN 62384 (186429)
- EN 55015



### Dimensions

- Casing: M7.1
- Length: 280 mm
- Width: 30 mm
- Height: 21 mm



### Product guarantee

- 5 years for operation at recommended operation temperature (see table for expected service life time on the next page)
- The conditions for the Product Guarantee of the Vossloh-Schwabe Group shall apply as published on our homepage ([www.vossloh-schwabe.com](http://www.vossloh-schwabe.com)). We will be happy to send you these conditions upon request.

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

## Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / $\mu$ s	Current- output DC mA ( $\pm$ 5%)	Voltage- output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
42	ECXe 350.129	<b>186414</b>	220–240	220–200	21 / 137	350	80–120	< 10	> 88	< 3
60	ECXe 700.140	<b>186429</b>	220–240	305–275	22.4 / 135	700	46–86	< 10	> 89	< 3

## Maximum ratings

Exceeding the maximum ratings can lead to reduction of service life or destruction of the drivers.

Ref. No.	Ambient temperature range		Operation humidity range		Storage temperature range		Storage humidity range		Max. operation temperature at $t_c$ point °C	Degree of protection
	°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.		
186414	-15	+45	5	60	-40	+85	5	95	+70	IP20
186429	-15	+50								

## Expected service life time

at operation temperatures at  $t_c$  point

Operation current	Ref. No.	
	186414, 186429	
Max.	60 °C*	70 °C
hrs.	50,000	30,000

\* recommended operation temperature

<b>PRI</b> <b>Un</b> = 220...240 V~ In = 220...200 mA fn = 50/60 Hz $\lambda$ = 0,95 ■ PE ■ L ■ N ■ Earth	<b>VS LIGHTING SOLUTIONS</b> Vossloh-Schwabe Deutschland GmbH Stuttgarter Straße 61/1, 73614 Schorndorf Electronic Converter for LED <b>Type ECXe350.129</b> Ref.-No. 186414 Made in China	$t_c$ = 70°C $t_a$ = -15...45°C	<b>SEC</b> <b>Irated</b> = 350 mA $t_c$ U = 60...120 V ● Uout = 130 V Prototed = 42 W ■ SEC + ■ SEC -
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<b>PRI</b> <b>Un</b> = 220...240 V~ In = 315...285 mA fn = 50...60 Hz $\lambda$ = 0,95 ■ PE ■ L ■ N ■ Earth	<b>VS LIGHTING SOLUTIONS</b> Vossloh-Schwabe Deutschland GmbH Stuttgarter Straße 61/1, 73614 Schorndorf Electronic Converter for LED <b>Type ECXe700.140</b> Ref.-No. 186429 Made in China	$t_a$ = -15...50°C $t_c$ = 75°C	<b>SEC</b> <b>Irated</b> = 700 mA U = 46...86 Vm Umax = 95 V Prototed = 60 W ● SELV ■ SEC + ■ SEC -
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## Output voltage (Uout)

According to EN 61347-1, U<sub>OUT</sub> indicates which voltage can occur at the output terminals directly or between the output terminals and the PE terminal of the LED driver. This value is given for non-insulated drivers.

The used LED module must have an insulation voltage that is at least as high as the specified U<sub>OUT</sub> voltage of the driver.

## Leakage current

Leakage currents are present in all electronic converters or luminaires with PE connection and must be observed especially when using non-insulated LED drivers. The PCB surfaces of LED modules form a capacitance with grounded LED aluminum circuit boards, heat sinks or mounting plates. This leads to capacitive leakage currents between the connection poles of the LED (+ and -) and the PE terminal. These capacitances should be kept as small as possible, since they are responsible for a possible glowing or flickering of the LEDs in standby mode. In extreme cases, the maximum permissible leakage current of the luminaire according to EN 60598 paragraph 10.3 may be exceeded. The leakage current is also relevant when using RCD circuit breakers.

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