

# CC STREET & INDUSTRY SIMPLE FIX



## ComfortLine SIMPLE FIX I-HSP

**186297**

### Typical Applications

Built-in in linear luminaires for

- Industry lighting



### ComfortLine Simple Fix I-HSP

- **VERY LOW RIPPLE CURRENT: < 1%**
- **SURGE PROTECTION: UP TO 3 KV**
- **SUITABLE FOR EMERGENCY ESCAPE LIGHTING SYSTEMS ACC. TO EN 50172**
- **LONG SERVICE LIFE: UP TO 100,000 HRS.**
- **PRODUCT GUARANTEE: 5 YEARS**



## ComfortLine Simple Fix I-HSP

### Product features

- Compact metal casing shape for built-in operation
- Control gear with stabilised output current

### Functions

- With 12 V interface: max. 2 W

### Electrical features

- Mains voltage: 220–240 V  $\pm 10\%$
- Mains frequency: 50–60 Hz
- DC operation: 198–264 V, 0 Hz  
(can be reduced to 176 V with reduced service life time)
- Push-in terminals: 0.2–1.5 mm<sup>2</sup>
- Power factor at full load: 0.9C–0.95
- Max. working voltage (U<sub>OUT</sub>): 450 V
- Secondary side switching of LED modules is not allowed.

### Safety features

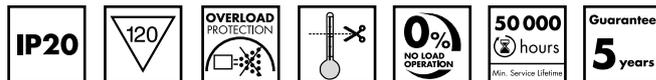
- Electronic short-circuit protection
- Overload protection
- Overtemperature protection
- The LEDs are thermally protected by the driver's NTC interface, which ensures the current will be reduced when a critical temperature is reached.

NTC at LED module 10 k $\Omega$

(Type Nürata NCP18XH103J03RB)

R (k $\Omega$ )	Nominal current (%)
10	100
< 1.49	60
< 1.13	0 (off)

- Protection against "no load" operation
- Degree of protection: IP20
- Protection class I



### Packaging units

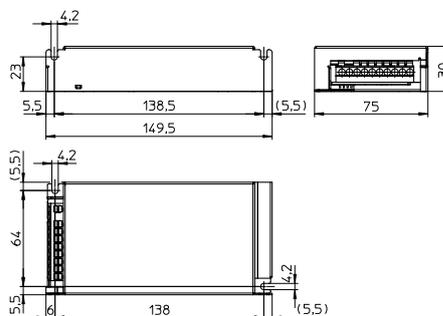
Ref. No.	Packaging unit		
	Pieces per box	Boxes per pallet	Weight g
186297	12	60	288

### Applied standards

- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 61000-3-2
- EN 62384
- EN 55015

### Dimensions built-in drivers

- Casing: M36
- Ref. No.: 186297
- Length: 149.5 mm
- Width: 75 mm
- Height: 30 mm



### Product guarantee

- 5 years
- 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.

### Product labels

**VSL LIGHTING SOLUTIONS**  
 Vossloh-Schwabe Deutschland GmbH  
 Stuttgarter Straße 61/1, 73614 Schorndorf  
 Electronic converter for LED  
**Type ECXe 700.057**  
 Ref.-No. 186297

Range of application DC 198...264V

EN 61347-1  
 EN 61347-2-13  
 EN 62384  
 EN 61547  
 EN 55015  
 EN 61000-3-2

Made in Serbia (Europe)

**INPUT**  
 U<sub>N</sub> = 220...240 V ~  
 I<sub>N</sub> = 550...510 mA  
 f<sub>N</sub> = 50...60 Hz  
 λ = 0,9C - 0,95

t<sub>c</sub> = 70 °C max.  
 t<sub>a</sub> = -25...+50 °C

**OUTPUT**  
 I<sub>rated</sub> = 700 mA  
 U = 85...160 V<sub>DC</sub>  
 U<sub>-out</sub> = 350 V  
 U<sub>max</sub> ≤ 450 V  
 P<sub>rated</sub> = 112 W  
**Non isolated**

tc at left hand case

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

## Electrical characteristics

Rated output power 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 %
<b>M36 – Built-in</b>										
60...112	ECXe 700.057	<b>186297</b>	198–264	595–445	63 / 145	700	85–160	> 20	> 91	< 1
			220–240	550–510						

## 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.		
186297	-25	+50	20	60	-40	+80	5	95	+70	IP20

## Expected service life time

at operation temperatures at  $t_c$  point

Operation current	Ref. No.	
	186297	
All	60 °C	70 °C
hrs.	100,000	50,000

## Output voltage ( $U_{out}$ )

According to EN 61347-1,  $U_{OUT}$  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  $U_{OUT}$  voltage of the driver.

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