# CC STREET & INDUSTRY SIMPLE FIX





# ComfortLine SIMPLE FIX I-HSP

# 186297, 186298, 186301, 186302

# **Typical Applications**

Built-in in linear luminaires for • Industry lighting

# ComfortLine Simple Fix I-HSP

- **VERY LOW RIPPLE CURRENT: < 3%**
- SURGE PROTECTION: UP TO 3 KV
- SUITABLE FOR EMERGENCY ESCAPE LIGHTING SYSTEMS ACC. TO EN 50172
- WITH INTEGRATED CORD GRIP FOR INDEPENDENT OPERATION
- 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 or plastic casing with integrated cord grip for independent operation.

#### Functions

• With 12 V interface: max. 2 W

#### **Electrical features**

- Mains voltage: 220–240 V ±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: > 0.95
- 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 Nurata NCP18XH103J03RB)							
R (kΩ)	Nominal current (%)						
10	100						
< 1.49	60						
< 1.13	O (off)						

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



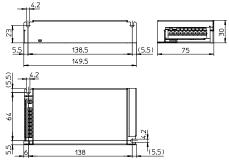


#### **Packaging units**

Ref. No.	Packaging unit					
	Pieces	Boxes	Weight			
	per box	per pallet	g			
186297, 186301	12	60	288			
186298, 186302	7	75	335			

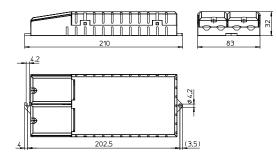
### **Dimensions built-in drivers**

- Casing: M36
- Ref. No.: 186297, 186301
- Length: 149.5 mm
- Width: 75 mm
- Height: 30 mm



#### **Dimensions independent drivers**

- Casing: K38
- Ref. No.: 186298, 186302
- Length: 210 mm
- Width: 83 mm
- Height: 32 mm



#### • EN 61347-1 • EN 61347-2-13

- EN 61547
- EN 61000-3-2

**Applied standards** 

- EN 62384
- EN 55015



#### **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). We will be happy to send you

these conditions upon request.

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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.	Туре	Ref. No.	Voltage	Mains	Inrush	Current	Voltage	THD	Efficiency	Ripple
output			50–60 Hz	current	current	output DC	output	at full load	at full load	100 Hz
W			V	mA	A / µs	mA (± 5%)	DC (V)	% (230 V)	% (230 V)	%
M36 -	Built-in									
112	ECXe 700.057	186297	198-264	595-445	63 / 145	700	85-160	> 20	> 91	< 1
			220-240	550-510						
126	ECXe 1050.059	186301	198-264	660-495	63 / 145	1050	85-120	> 20	> 91	< 2
			220-240	630–590						
K38 - I	ndependent				î.	· · · · · · · · · · · · · · · · · · ·				
112	ECXe 700.057	186298	198-264	595-445	63 / 145	700	85-160	> 20	> 91	< 1
			220-240	550-510						
126	ECXe 1050.059	186302	198-264	660-495	63 / 145	1050	85-120	> 20	> 91	< 2
			220-240	630–590	7					

# **Maximum ratings**

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

Ref. No.	Ambient temperature		Operation	Operation humidity		Storage temperature		midity range	Max. operation	Degree of
	range		range	range		range			temperature at t <sub>c</sub> point	protection
	°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.	°C	
186297	-25	+50	20	60	-40	+80	5	95	+70	IP20
186301									+75	
186298									+80	
186302									+90	

# **Expected** service life time

at operation temperatures at t<sub>c</sub> point

Operation	Ref. No.										
current	186297		186301		186298		186302				
All	60 °C	70 °C	65 ℃	75 ℃	70 °C	80 °C	80 °C	90 °C			
hrs.	100,000	50,000	100,000	50,000	100,000	50,000	100,000	50,000			

# 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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