CC COMPACT





EASYLINE SIMPLE FIX R-R3

187304, 187305, 187306, 187307, 187308, 187113, 187114, 187115

Typical Applications

- Built-in in compact luminaires for
- Shop lighting
- Office lighting

EasyLine Simple Fix R-R3

- ESPECIALLY SPACE-SAVING CASING DESIGN
- DIFFERENT WATTAGES AVAILABLE
- **VERY LOW RIPPLE:** < 3%
- SELV
- LONG SERVICE LIFE: UP TO 100,000 HRS.



PRODUCT GUARANTEE: 5 YEARS

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EasyLine Simple Fix R-R3

Product features

Round casing shape

Functions

• Different wattages available

Electrical features

- Mains voltage: 220–240 V ±10%
- Mains frequency: 50–60 Hz
- Pre-assembled connection leads primary and secondary side:

Ref. No	Leads (mm²)	Length (mm)
All types	2x0.5	155 ±5

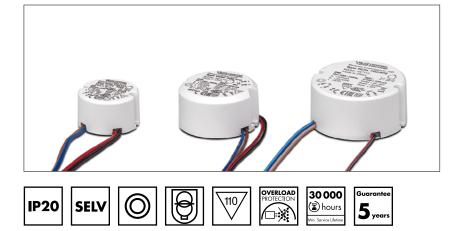
- Power factor at full load: > 0.74C-0.95
- Open circuit voltage (U_{max.}): 55 V
- Secondary side switching of LED modules is not allowed.

Safety features

- Protection against transient main peaks up to 1 kV (between L and N)
- Electronic short-circuit protection
- Overload protection
- Protection against "no load" operation
- Degree of protection: IP20
- Protection class II
- SELV

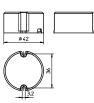
Packaging units

Ref. No.	Packaging unit					
	Pieces	Boxes	Weight			
	per box	per pallet	g			
187304	48	90	50			
187305	48	90	50			
187306	48	90	50			
187307	48	90	50			
187308	48	90	50			
187113	60	45	95			
187114	60	45	95			
187115	60	30	155			

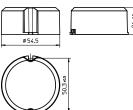


Dimensions

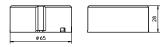
- Casing: K88 Ref. No.: 187304, 187305, 187306, 187307, 187308
- Diameter: 42 mm
- Height: 22 mm

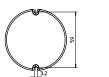


- Casing: K89
- Ref. No.: 187113, 187114
- Diameter: 54,5 mm •
- Height: 26 mm



- Casing: K90
- Ref. No.: 187115
- Diameter: 65 mm
- Height: 28 mm





Applied standards

- EN 61000-3-2 Class C
- EN 61000-3-3
- EN 61000-4-5 -1000 V
- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 62384
- EN 55015





187113, 187114, 187115

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187304, 187305, 187306, 187307, 187308, 187309

Product guarantee

- 5 years for operation at recommended operation temperature (see table for expected service life time on the (eppa txen
- 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.

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	Efficiency	Ripple
output			50–60 Hz	current	current	output DC	output	at full load	100 Hz
W			V	mA	A / µs	mA (± 5%)	DC (V)	% (230 V)	%
6	ECXe 150.608	187304	220-240	43-40	3 / 80	150*	24-42	> 81	< 3
8	ECXe 200.609	187305	220-240	51-48	3 / 80	200*	24-42	> 81	< 3
12	ECXe 250.610	187306	220-240	76-71	4 / 92	250*	27-48	> 83	< 3
	ECXe 300.611	187307	220-240	80–75	4/91	300*	24-42	> 83	< 3
14	ECXe 350.612	187308	220-240	88-82	4 / 89	350*	22-40	> 83.5	< 3
22	ECXe500.476	187113	220-240	144-91	25 / 180	500	28-43	> 87	< 3
25	ECXe600.477	187114	220-240	171-107	25 / 180	600	28-42	> 87	< 3
30	ECXe700.478	187115	220-240	198-124	20 / 150	700	28-42	> 89	< 3

*±10 % for 187304, 187305, 187306, 187307, 187308

Maximum ratings

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

Ref. No.	Ambient ten	Ambient temperature		Operation humidity		Storage temperature		nidity	Max. operation	Degree of
	range	range		range range		range			temperature at t _c point	protection
	°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.	°C	
all Types	-20	+60	20	90	-20	+60	20	90	+90	IP20

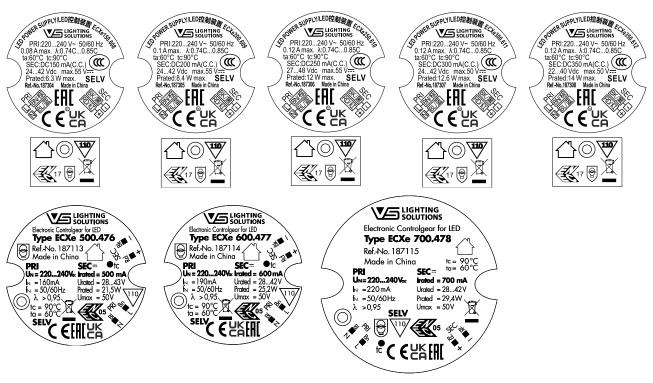
Expected service life time

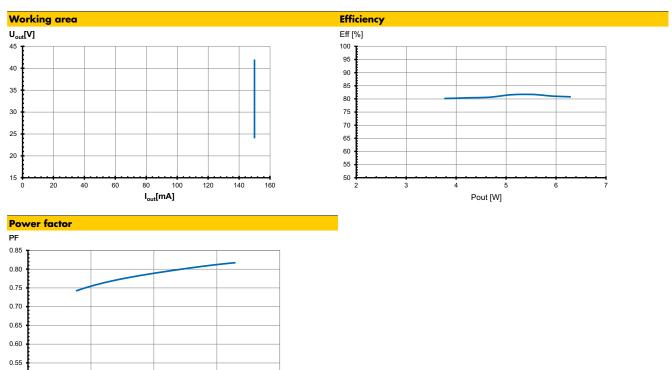
at operation temperatures at t_{C} point

Operation	Ref. No.		
current	All types		
All	70 °C*	80 °C	90 °C
hrs.	100,000	60,000	30,000
*	1.1		

* recommended operation temperature

Product labels

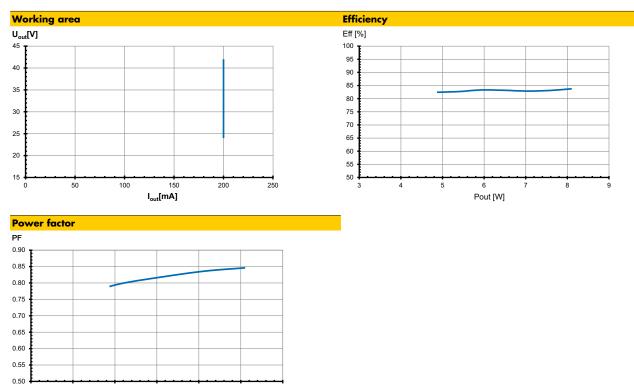




Typ. performance graphs for 187304 / Type ECXe 150.608



5 Pout [W] 6



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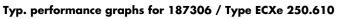
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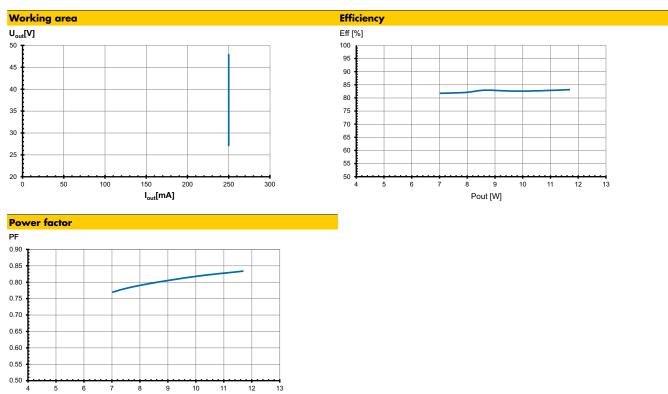
Pout [W]

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0.50

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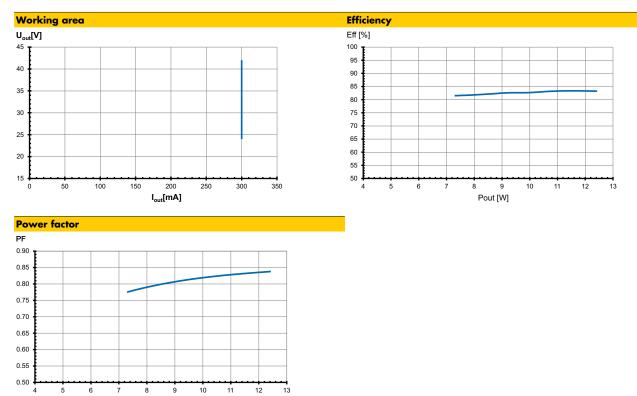




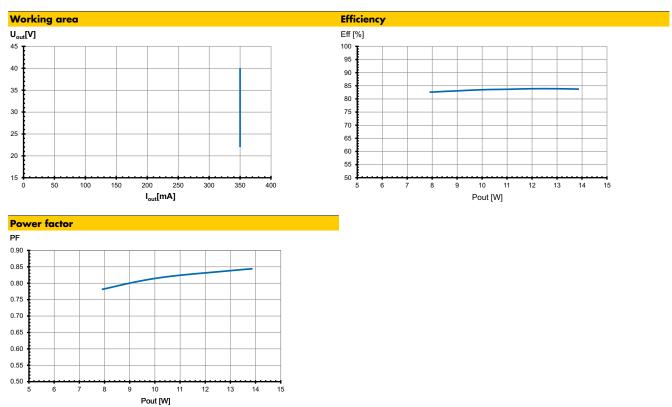
Typ. performance graphs for 187307 / Type ECXe 300.611

Pout [W]

Pout [W]

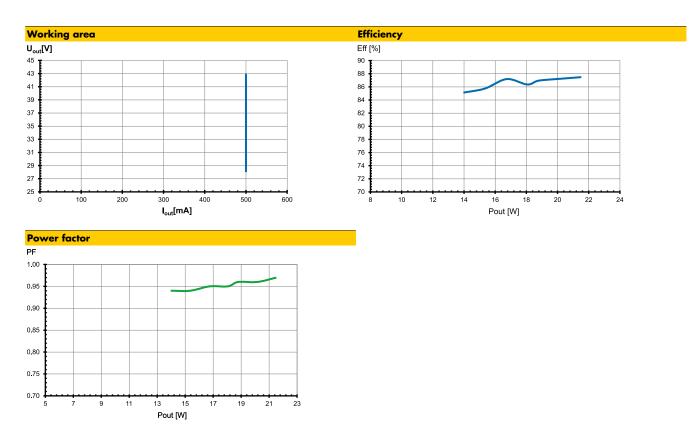


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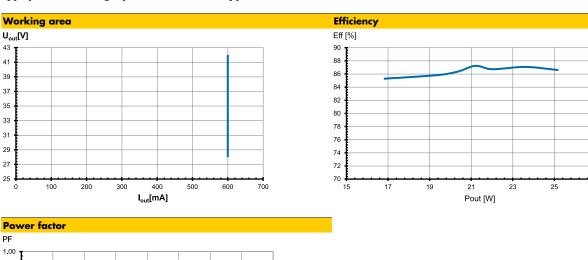


Typ. performance graphs for 187308 / Type ECXe 350.612

Typ. performance graphs for 187113 / Type ECXe 500.476

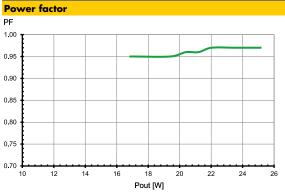


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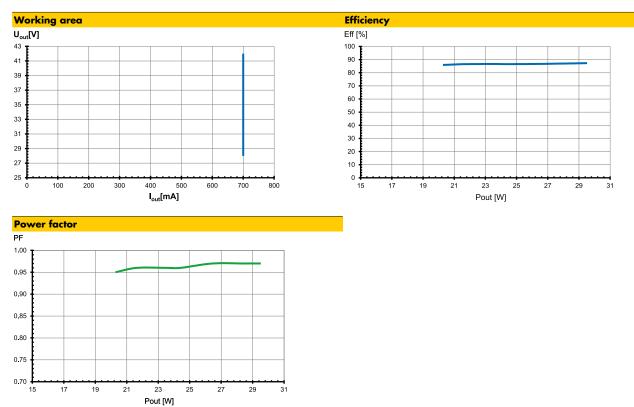


Typ. performance graphs for 187114 / Type ECXe 600.477

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Typ. performance graphs for 187115 / Type ECXe 700.478



Safety functions

- Transient mains peaks protection:
 - Values are in compliance with EN 61547 (interference immunity).

Surges between L–N: up to 1 kV

- Short-circuit protection: The control gear is protected against permanent short-circuit with automatic restart function.
- Overload protection: The control gear only works in range of rated output power and voltage problemfree (< 60 V DC).
 Please check before switch-on mains power supply that the selected LED load is suitable

(see Electrical Characteristics on data sheet).

• If any of the above mentioned safety functions will be triggered, disconnect the control gear from the power supply then find and eliminate the cause of the problem.

Assembly and Safety Information

Installation must be carried out under observation of the relevant regulations and standards. Installation must be carried out in a voltage-free state (i.e. disconnection from the mains). The following advices must be observed; non-observance can result in the destruction of the LED drivers, fire and/or other hazards.

Mandatory regulations

- DIN VDE 0100
- EN 60598-1

Mechanical mounting

- Mounting position: Independent application: Drivers are
- allowed to use for independent applications Mounting location: LED drivers are designed for integration into
 - luminaires or comparable devices. Independent LED drivers do not need to be integrated into a casing.

Installation in outdoor luminaires: degree of protection for luminaire with water protection rate \geq 4 (e.g. IP54 required).

• Degree of protection: IP20

Boglob of protoone	
 Clearance: 	Min. 0.10 m from walls. ceilings and
	insulation
• Surface:	Solid and plane surface for optimum
	heat dissipation required.
 Heat transfer: 	If the driver is destined for installation in a
	luminaire. sufficient heat transfer must be
	ensured between the driver and the luminaire
	casing.
	LED drivers should be mounted with the
	greatest possible clearance to heat sources.
	During operation. the temperature measure at
	the driver's t _c point must not exceed the
	specified maximum value.
 Fastening: 	Using M4 screws in the designated holes

• Tightening torque: 0.2 Nm

Electrical installation

• Pre-assembled connection leads

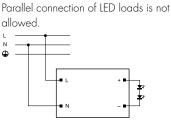
	primary and secondary side:						
	Ref. No	Leads (mm²)	Length (mm)				
	All types	2x0,5	155 ±5				
		be kept short interference). Mains and lar separate and in parallel to c Max. secondo	(to reduce the mp conductor if possible s pone another ary side lea	in the luminaire n he induction of ors must be kept should not be laid : d length: 0.8 m			
•	Through-wiring:	ls not allowed	l.				

• Polarity:

Please ensure the correct polarity of the leads prior to commissioning. Reversed polarity can destroy the modules.

- The sum of forward voltages of LED loads is • Secondary load: within the tolerances which are mentioned in the Electrical Characteristics on the data sheet
- Parallel wiring:

Wiring diagram:



Selection of automatic cut-outs for VS LED drivers

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• Dimensioning automatic cut-outs

High transient currents occur when an LED driver is switched on because the capacitors have to load. Ignition of LED modules occurs almost simultaneously. This also causes a simultaneous high demand for power. These high currents when the system is switched on put a strain on the automatic conductor cut-outs. which must be selected and dimensioned to suit.

Release reaction

The release reaction of the automatic conductor cut-outs comply with VDE 0641. part 11. for B. C characteristics. The values shown in the following tables are for guidance purposes only and are subject to system-dependent change.

No. of LED drivers

The maximum number of VS LED drivers applies to cases where the devices are switched on simultaneously. Specifications apply to single-pole fuses. The number of permissible drivers must be reduced by 20% for multi-pole fuses. The considered circuit impedance equals 400 m Ω (approx. 20 m [2.5 mm²] of conductor from the power supply to the distributor and a further 15 m to the luminaire).

Туре	Ref. No.	Automatic cutout type and possible no. of VS drivers pcs.						
Automatic cut-out type B 10 A B 13 A B 16 A C 10 A C 13 A C 10						C 16 A		
ECXe 150.608	187304	212	276	340	212	276	340	
ECXe 200.609	187305	178	232	285	178	232	285	
ECXe 250.610	187306	121	159	195	121	159	195	
ECXe 300.611	187307	113	147	181	113	147	181	
ECXe 350.612	187308	104	135	166	104	135	166	
ECXe 500.476	187113	24	30	36	30	37	45	
ECXe 600.477	187114	24	30	36	30	37	45	
ECXe 700.478	187115	16	20	24	20	25	30	

