CV 24 V





EASYLINE 24 V C

186624

Typical Applications

Built-in in luminaires for 24 V systems

- Retail lighting
- Residential lighting
- Furniture lighting

EasyLine 24 V C

- VERY LOW RIPPLE CURRENT: < 3%
- WITH INTEGRATED CORD GRIP FOR INDEPENDENT OPERATION
- SELV
- SUITABLE FOR BUILT-IN INTO FURNITURE
- LONG SERVICE LIFE: UP TO 60,000 HRS.
- PRODUCT GUARANTEE: 5 YEARS



EasyLine 24 V C

Product features

- Compact casing shape
- For use in applications with low capacity range of up to 30 W

Electrical features

- Mains voltage: 220–240 V ±10%
- Mains frequency: 50–60 Hz
- Screw terminals primary: 0.75-1.5 mm², secondary: 0.5-1.5 mm²
- Power factor at full load: > 0.95 C

Safety features

- Protection against transient main peaks
- Electronic short-circuit protection
- Overload protection: reversible
- Protection against "no load" operation
- Degree of protection: IP20
- Protection class II
- SELV

Packaging units

Ref. No.	Packaging unit				
	Pieces	Pieces Boxes			
	per box	per pallet	g		
186624	20	115	125		





30 000

😰 hours









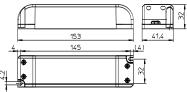






Dimensions

- Casing: K53Length: 153 mmWidth: 41 mm
- Height: 32 mm



- 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). We will be happy to send you these conditions upon request.

Applied standards

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







Electrical characteristics

Max.	Туре	Ref. No.	Voltage	Mains	Inrush	Current	Voltage	THD	Efficiency	Ripple
output			50-60 Hz	current	current	output DC	output DC	at full load	at full load	100 Hz
W			V	mA	A / µs	mA (± 5%)	V (± 5%)	% (230 V)	% (230 V)	%
30	EDXe 130/24.057	186624	220-240	160-140	22 / 190	0-1250	24	< 7	> 88	≤ 3

Maximum ratings

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

Ref. No.	Ambient tempe	erature	ature Operation humidity		Storage temperature		Storage humidity range		Max. operation	Degree of
	range		range		range	ange		temperature at t _c point	protection	
	°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.	°C	
186624	-15	+45	20	60	-40	+85	5	95	+80	IP20

Expected service life time

at operation temperatures at t_{c} point

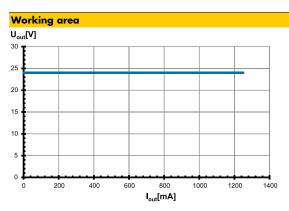
Operation	Ref. No.	
current	186624	
All	70 °C*	80 °C
hrs.	60,000	30,000

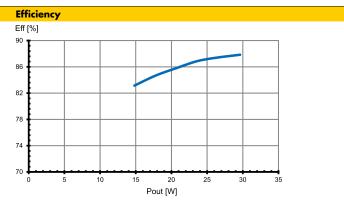
^{*} recommended operation temperature

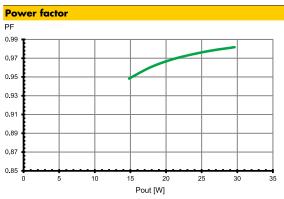
Product label

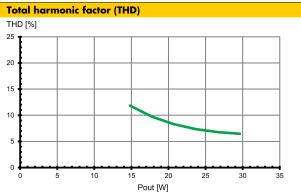


Typ. performance graphs for 186624 / Type EDXe 130/24.057









Safety features

• Transient mains peaks protection:

Values are in compliance with EN 61547 (interference immunity).

Surges between L-N: up to 1 kV Surges between L/N-PE: up to 2 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.
 Please check that the selected LED load is suitable (see Electrical Characteristics on this data sheet).
- No load operation: The control gear is protected against no load operation (open load).
- 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.

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

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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: Drivers are suitable for independent

operation.

• Mounting location: 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 ≥ 4 (e.g. IP54 required).

• Degree of protection: IP20

• 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

• Connection terminals: Screw terminals for rigid or flexible

conductors with a section of 0.75–1.5 mm² (primary) or 0.5–1.5 mm² (secondary)

• Stripped length: 8.5-10 mm

• Wiring: The mains conductor within the luminaire must

be kept short (to reduce the induction of

interference).

Mains and lamp conductors must be kept separate and if possible should not be laid

in parallel to one another.

• Polarity: Please ensure the correct polarity of the leads

prior to commissioning. Reversed polarity can

destroy the modules.

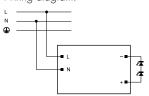
• Through-wiring: Is not allowed

Secondary load: The sum of forward voltages of LED loads is

within the tolerances which are mentioned in the Electrical Characteristics on the data

sheet.

• Wiring diagram:



Selection of automatic cut-outs for VS LED drivers

• 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.		ic cut-out no. of V	7.1	ł		
Automatic cut-out	B 10 A	B 13 A	B 16 A	C 10 A	C 13 A	C 16 A	
EDXe 130/24.057 1	86624	19	25	30	32	41	51

 To limit capacitive inrush currents the current carrying capacity of each circuit breaker (fuse) can be increased by a factor of 2.5 with the help of our ESB (Ref. No.: 149820, 149821, 149822) inrush current limiters.