CV 24 V

DALI2





COMFORTLINE 24 V DALI2 IP

187507, 187508, 187509

Typical Applications

Luminaires for 24 V systems

- Industrial lighting
- Outdoor lighting
- Architectural lighting



PUSH

ComfortLine 24 V DALI2 IP

- DIMMABLE: DALI (ED. 2)
- DEGREE OF PROTECTION: IP67
- VERY LOW RIPPLE: < 1%</p>
- PREASSEMBLED CONNECTION LEADS
- SELV
- LONG SERVICE LIFE: UP TO 50,000 HRS.
- PRODUCT GUARANTEE: 5 YEARS



Product features

- Compact casing shape IP67
- For use in applications in a power range of 45W, 80W, 150W

Electrical features

- Mains voltage: 220-240 V ±10%
- Mains frequency: 50-60 Hz
- Power factor at full load: > 0.95
- SVM: < 0.4
- PstLM: < 1

Safety features

- Protection against transient main peaks
- Electronic short-circuit protection
- Overload protection: reversible
- Protection against "no load" operation
- Degree of protection: IP67
- Protection class I (metal casing)
- SELV

Dimming

- PWM dimming > 1 kHz
- Dimming range: 1 to 100%





















Ref. No.

187507

187508

187509

Packaging units

20

20

Packaging unit

Boxes

40

40

30

Dimming

PWM

Weight

455

595

7.50



Applied standards

- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 61000-3-2
- EN 62384
- EN 55015
- EN 62386 ed. part 101/102/207/ 251/252/253







Dimensions

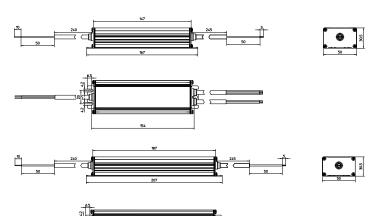
- Casing: M102
- Ref. No.: 187507
- Length: 167 mm • Width: 50 mm
- Height: 30.5 mm

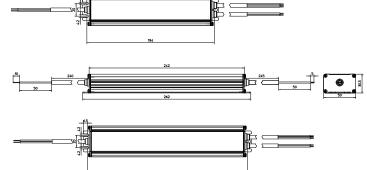


• Length: 207 mm • Width: 50 mm

• Height: 30.5 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 aspublished 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.



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Electrical characteristics

Мах.	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	V (± 5%)	% (230 V)	% (230 V)	%
45	EDXd 145/24.099	187507	220-240	236-218	20 / 261	0-1881	24	< 12	> 88	≤]
80	EDXd 180/24.100	187508	220-240	409-375	32 / 256	0-3334	24	< 9	> 89	≤ 1
150	EDXd 1150/24.101	187509	220-240	762-218	48 / 406	0-6253	24	< 6	> 90	≤ 1

Maximum ratings

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

Ref. No.	Ambient temperature		Operation humidity		Storage temperature		Storage humidity range		Max. operation	Degree of
	range		range		range				temperature at t _c point	protection
	°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.	°C	
187507	-20	+60	20	90	-30	+85	20	90	+85	IP67
187508	-20	+60							+85	
187509	-20	+55							+85	

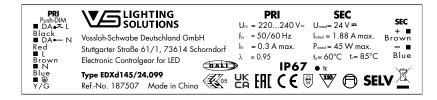
Expected service life time

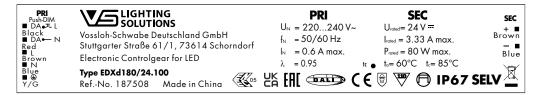
at operation temperatures at t_c point

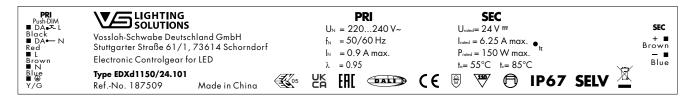
Operation current	Ref. No. all types			
tc-temp	75 °C*	85 °C		
hrs.	100,000	50,000		

 $^{^{\}star}$ recommended operation temperature

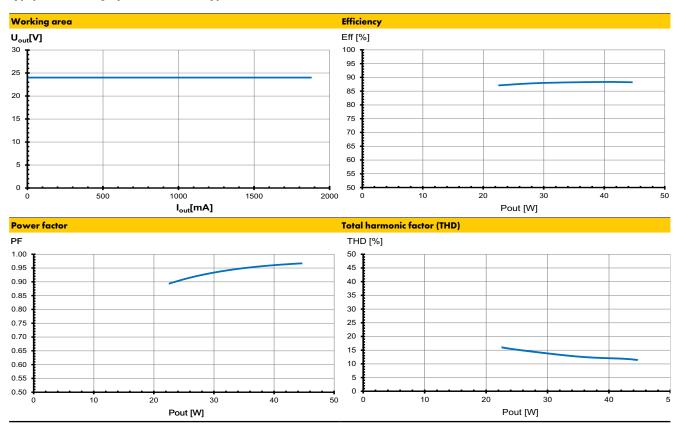
Product labels



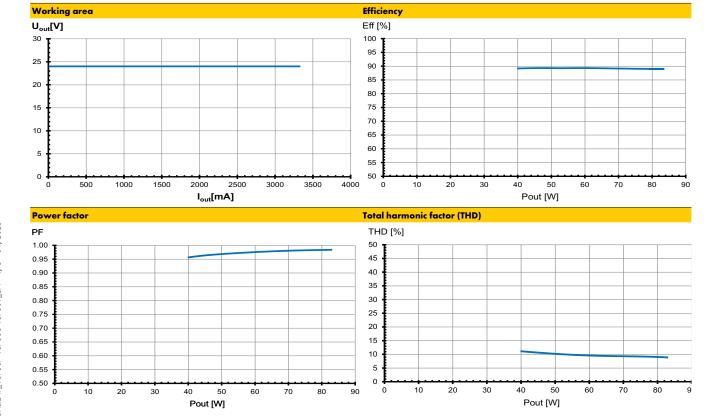






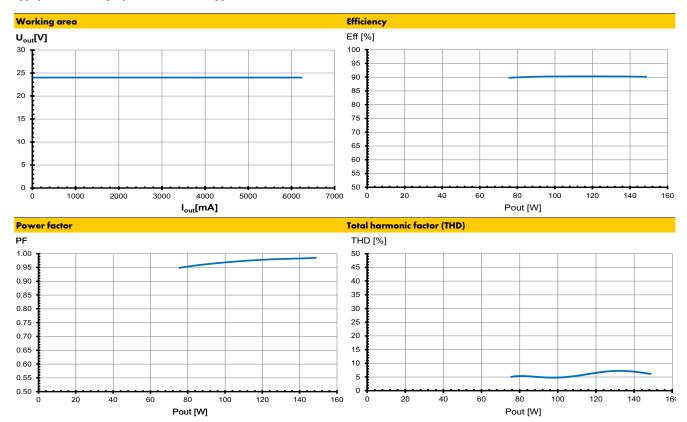


Typ. performance graphs for 187508 / Type EDXd 180/24.100





Typ. performance graphs for 187509 / Type EDXd 1150/24.101



Safety features

• Transient mains peaks protection:

Values are in compliance with EN 61547 (interference immunity). Surges between L/N: up to $4 \, kV$ Surges between L-N/PE: up to 6 kV

• Short-circuit protection:

The control gear is protected against permanent short-circuit with automatic restart

• 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.



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 VDF 0100
- EN 60598-1

Mechanical mounting

• Mounting position: Drivers are suitable for independent

· Mounting location: Independent LED drivers do not need to be

integrated into a casing.

• Degree of protection: IP67

• Clearance: 0.10 m recommended 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 $t_{\rm c}$ point must not exceed the

specified maximum value.

• Fastening: Using M4 screws in the designated holes

• Tightening torque:

Electrical installation

• 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

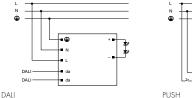
in parallel to one another.

• Polarity: Please ensure the correct polarity of the leads

prior to commissioning. Reversed polarity can

destroy the modules.

• Wiring diagram:





Note: Max. quantity of drivers at one push button: 30

• Corridor Function: Enter corridor mode: Long push(>120s)

Exit corridor mode: Short push 5 times in 3

(For detailed description of corridor functionality please contact your responsible sales person)

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 $\ensuremath{\mathsf{VDE}}$ 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 $400~\text{m}\Omega$ (approx. 20~m [2.5 $\text{mm}^2]$ of conductor from the power supply to the distributor and a further 15 m to the luminaire).

Туре	Ref. No.	Automatic cut-out type and possible no. of VS drivers pcs.					
Automatic cut-out ty	B 10 A	B 13 A	B 16 A	C 10 A	C 13 A	C 16 A	
EDXd 145/24.099	187507	15	20	25	26	34	42
EDXd 180/24.100	187508	9	12	15	16	21	26
EDXd 1150/24.101	187509	4	5	6	6	8	10

- 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.

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