

CC COMPACT DIMMABLE



COMFORTLINE SIMPLE FIX MINI SLIM DALI2 100V

187605, 187606, 187607, 187608

Typical Applications

Built-in in compact luminaires

- Office lighting
- Residential lighting



PUSH

ComfortLine Simple Fix Mini Slim DALI2 100V

- **DIMMABLE: DALI (ED. 2)**
- **WIDE INPUT VOLTAGE RANGE: 100-240 V**
- **WITH INTEGRATED CORD GRIP
FOR INDEPENDENT OPERATION**
- **SELV**
- **SUITABLE FOR BUILT-IN INTO FURNITURE**
- **PRODUCT GUARANTEE: 5 YEARS**



ComfortLine Simple Fix Mini Slim DALI2 100V

Product features

- Compact casing shape
- For independent operation with cord grip

Functions

- Fixed output current

Electrical features

- Mains voltage: 100–240 V ±10%
- Mains frequency: 50–60 Hz
- Push-in terminals: 0.5–1.5 mm²
- Power factor at full load: > 0.9
- Standby losses: < 0.5 W
- Open circuit voltage (U_{max.}): 60 V
- Secondary side switching of LED modules is not allowed.

Dimming

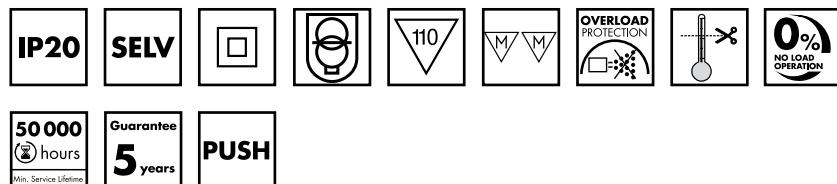
- Dimming range: 1 to 100%
- If no dimming interface is connected, brightness will stay at 100%.

Safety features

- Protection against transient main peaks up to 1 kV (between L and N)
- Electronic short-circuit protection
- Overload protection
- Overtemperature protection
- Protection against "no load" operation
- Degree of protection: IP20
- Protection class II
- SELV
- SVM: < 0.4
- PstLM: < 1

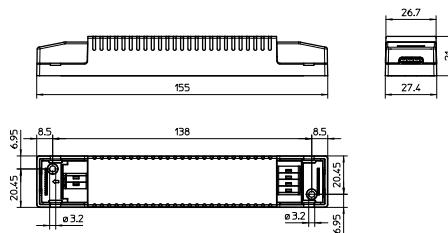
Packaging units

Ref. No.	Packaging unit	Pieces per box	Boxes per pallet	Weight g
187605		50	114	70
187606		50	114	72
187607		50	114	78
187608		50	114	71



Dimensions

- Casing: K121
- Length: 155 mm
- Width: 27.4 mm
- Height: 21 mm



Applied standards

- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 61000-3-3
- EN 62384
- EN 55015
- IEC 62386 ed. 2 part 102/103/207
- VDE 0710-T14



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.

Dimming

Analogue



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

LED Drivers – ComfortLine Simple Fix Mini Slim DALI2 100V

Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA ($\pm 5\%$)	Voltage output DC (V)	THD %	Efficiency at full load % (230 V)	Ripple 100 Hz %
9	ECXd 700.748	187605	100–240	95–40	5 / 50	700	6–13	8	> 85	< 3
15	ECXd 350.749	187606	100–240	150–65	7.5 / 50	350	16–42	8	> 88	< 3
21	ECXd 500.750	187607	100–240	215–95	7.5 / 50	500	16–42	7	> 89	< 3
5	ECXd 350.751	187608	100–240	50–25	5 / 50	350	6–13	8	> 81	< 3

Maximum ratings

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

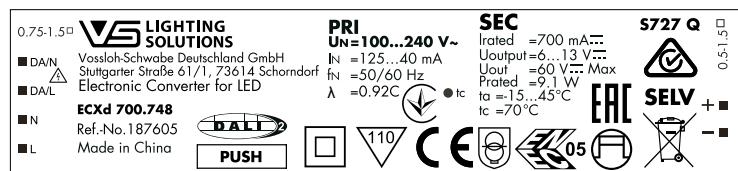
Ref. No.	Ambient temperature range °C min. °C max.	Operation humidity range % min. % max.	Storage temperature range °C min. °C max.	Storage humidity range % min. % max.	Max. operation temperature at t_c point °C	Degree of protection
187605, 187606, 187608	-15	+45	10	90	-40	+85
187607					5	95
					+70	IP20
					+85	

Expected service life time

at operation temperatures at t_c point

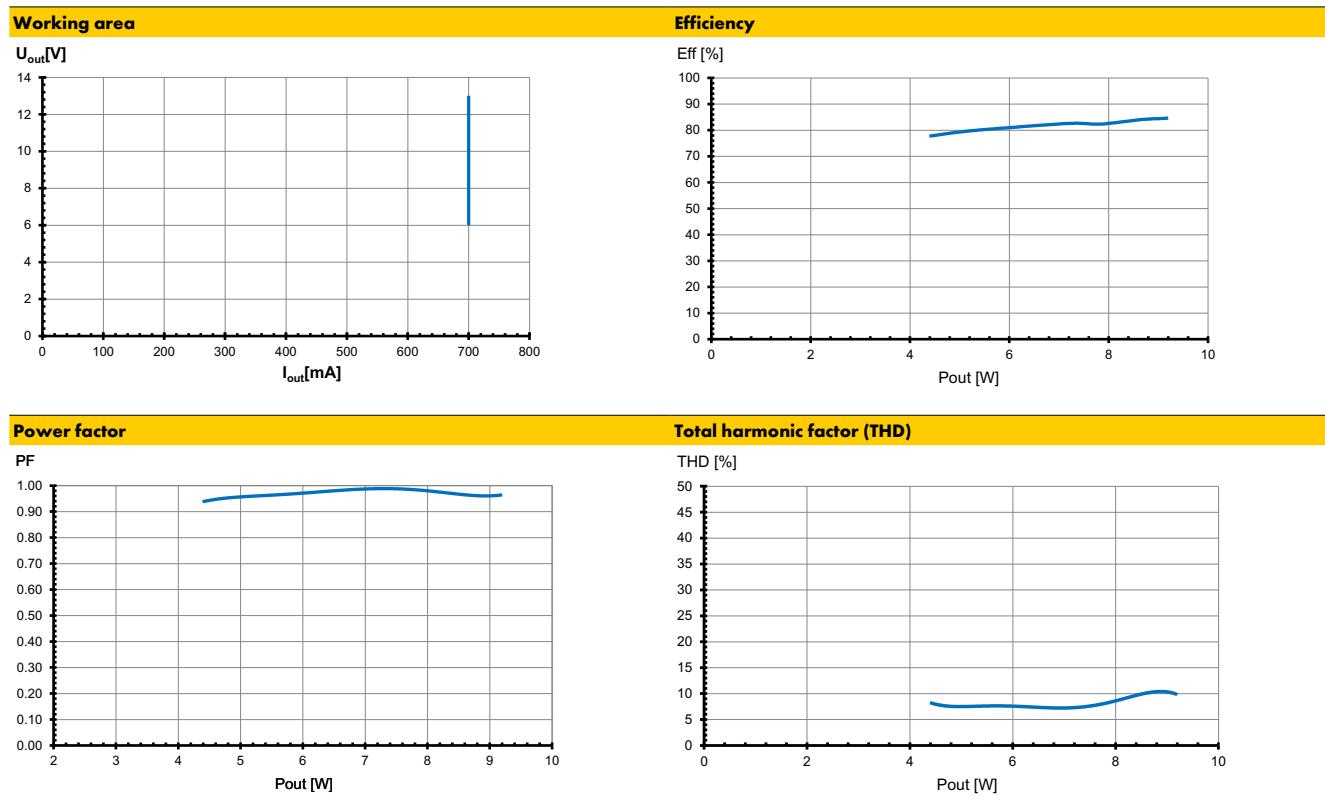
Operation current	Ref. No.	187607	187605, 187606, 187608
Max.	75 °C	85 °C	60 °C
hrs.	100.000	50.000	100.000

Product labels

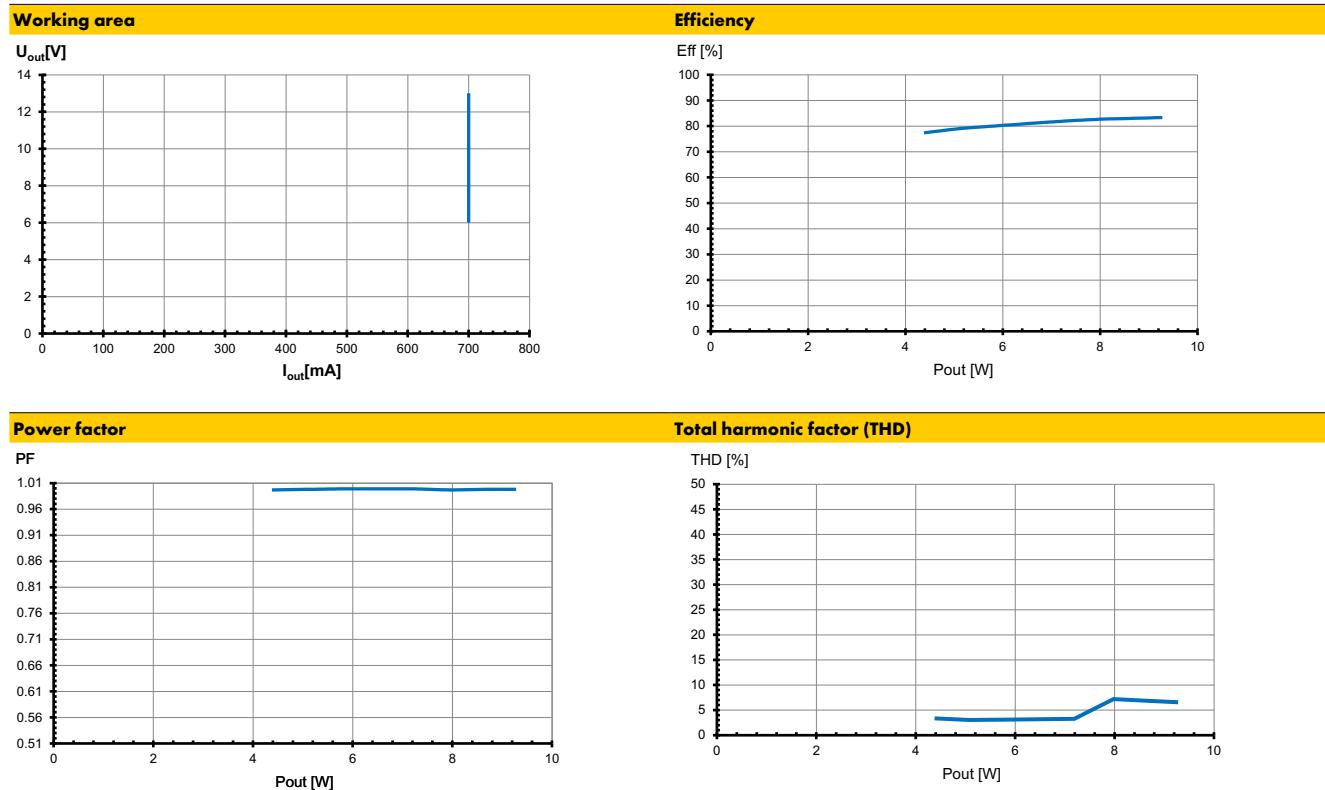


LED Drivers – ComfortLine Simple Fix Mini Slim DALI2 100V

Typ. performance graphs for 187605 / Type ECXd 700.748 at 230 V



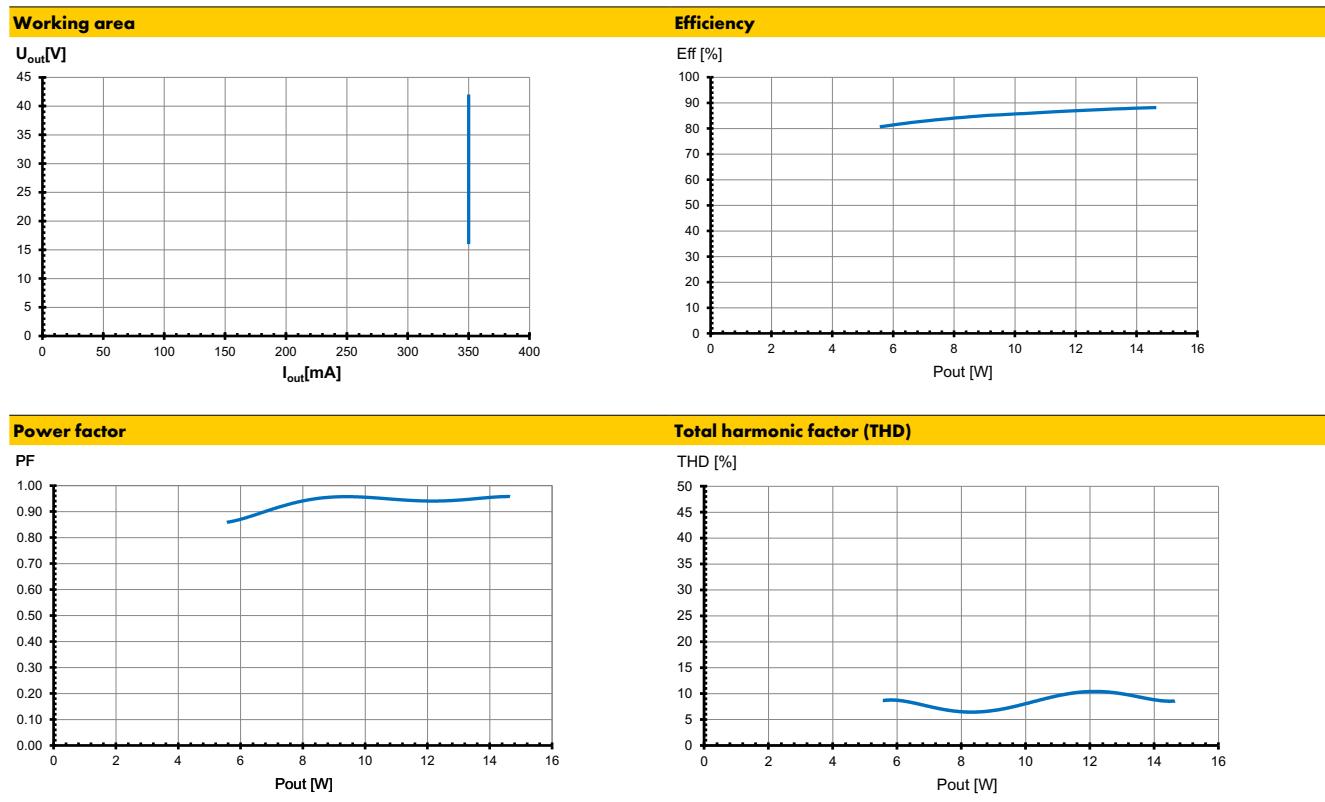
Typ. performance graphs for 187605 / Type ECXd 700.748 at 100 V



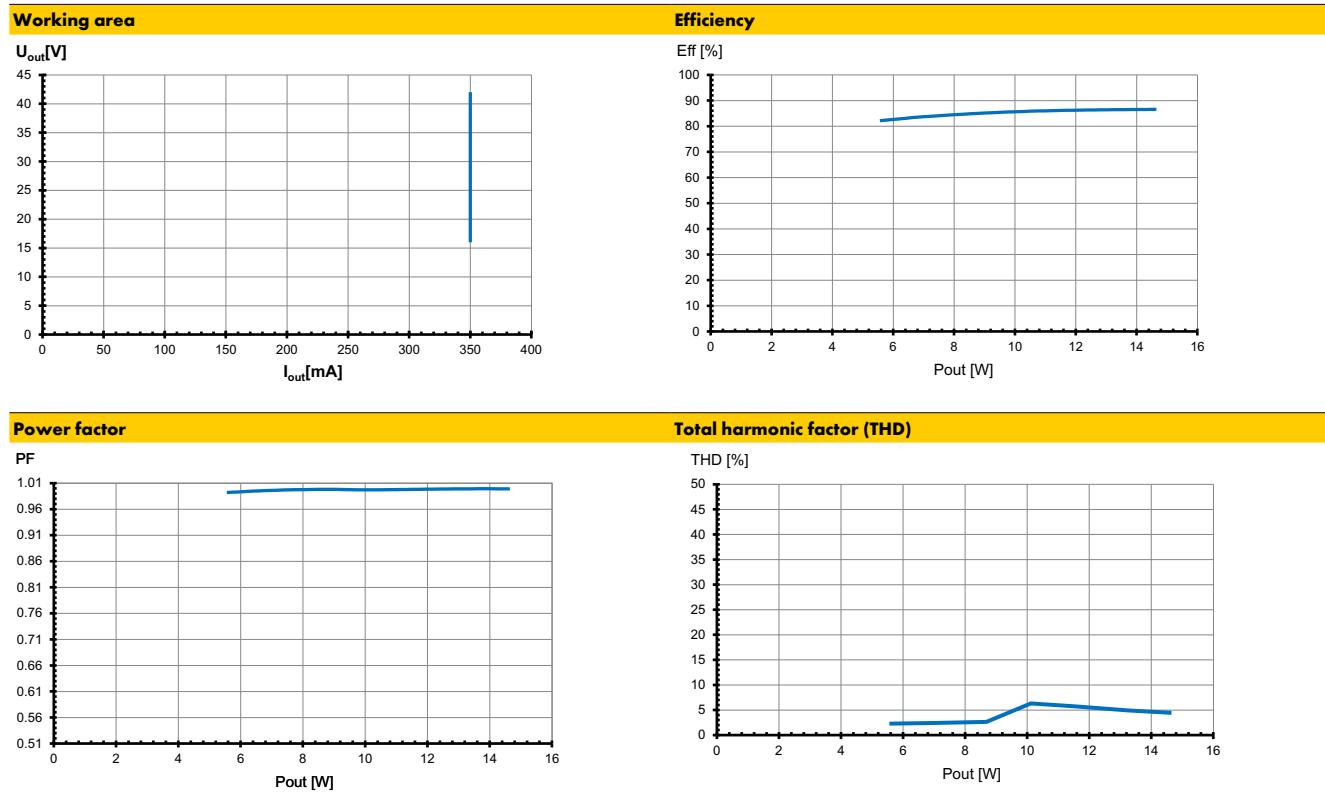
The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

LED Drivers – ComfortLine Simple Fix Mini Slim DALI2 100V

Typ. performance graphs for 187606 / Type ECXd 350.749 at 230 V



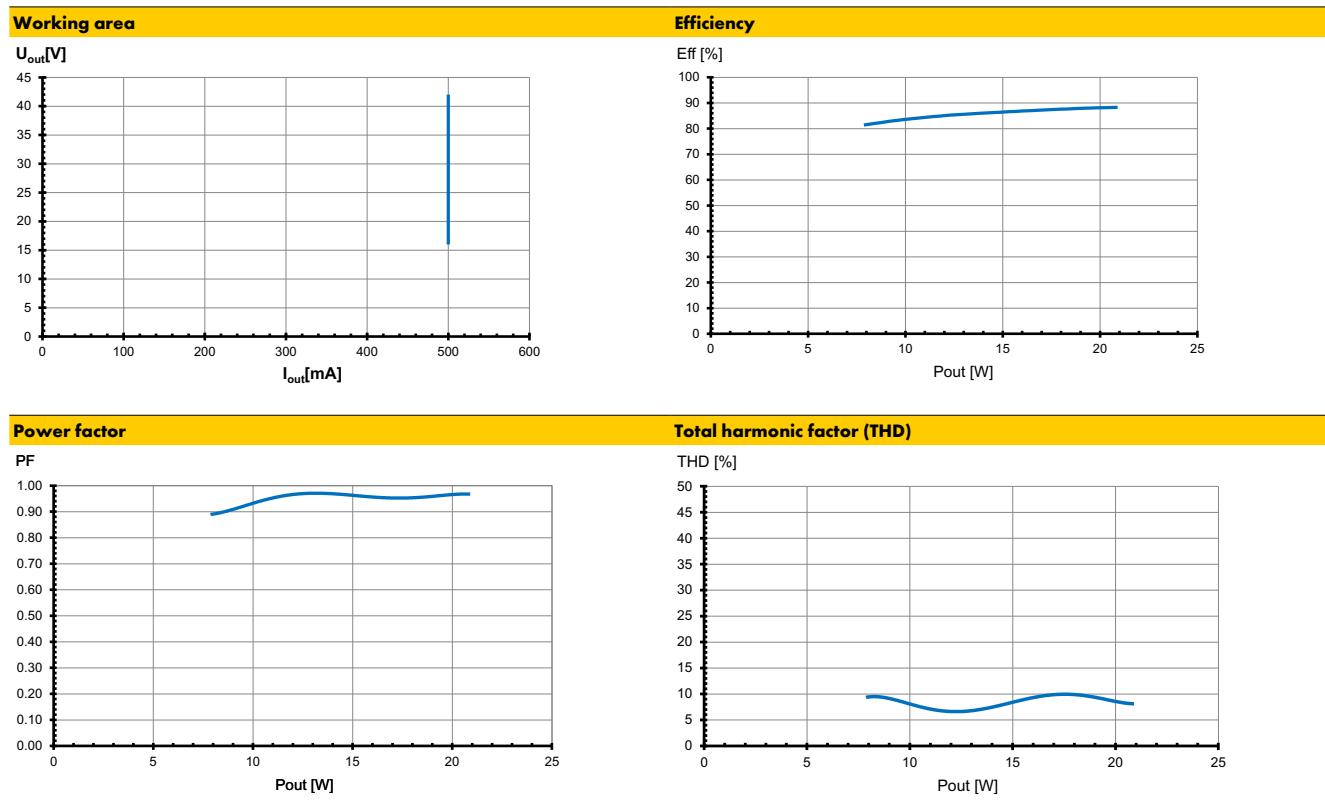
Typ. performance graphs for 187606 / Type ECXd 350.749 at 100 V



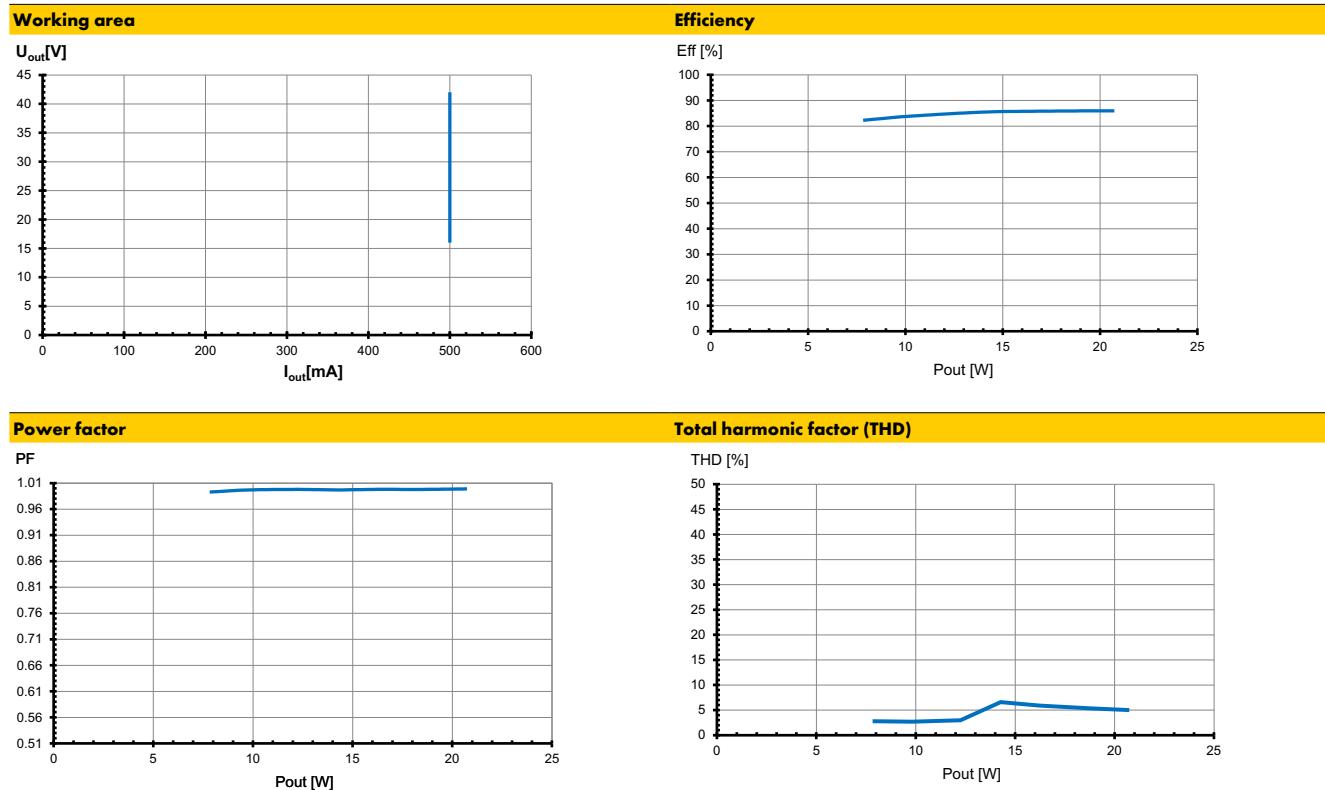
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LED Drivers – ComfortLine Simple Fix Mini Slim DALI2 100V

Typ. performance graphs for 187607 / Type ECXd 500.750 at 230 V



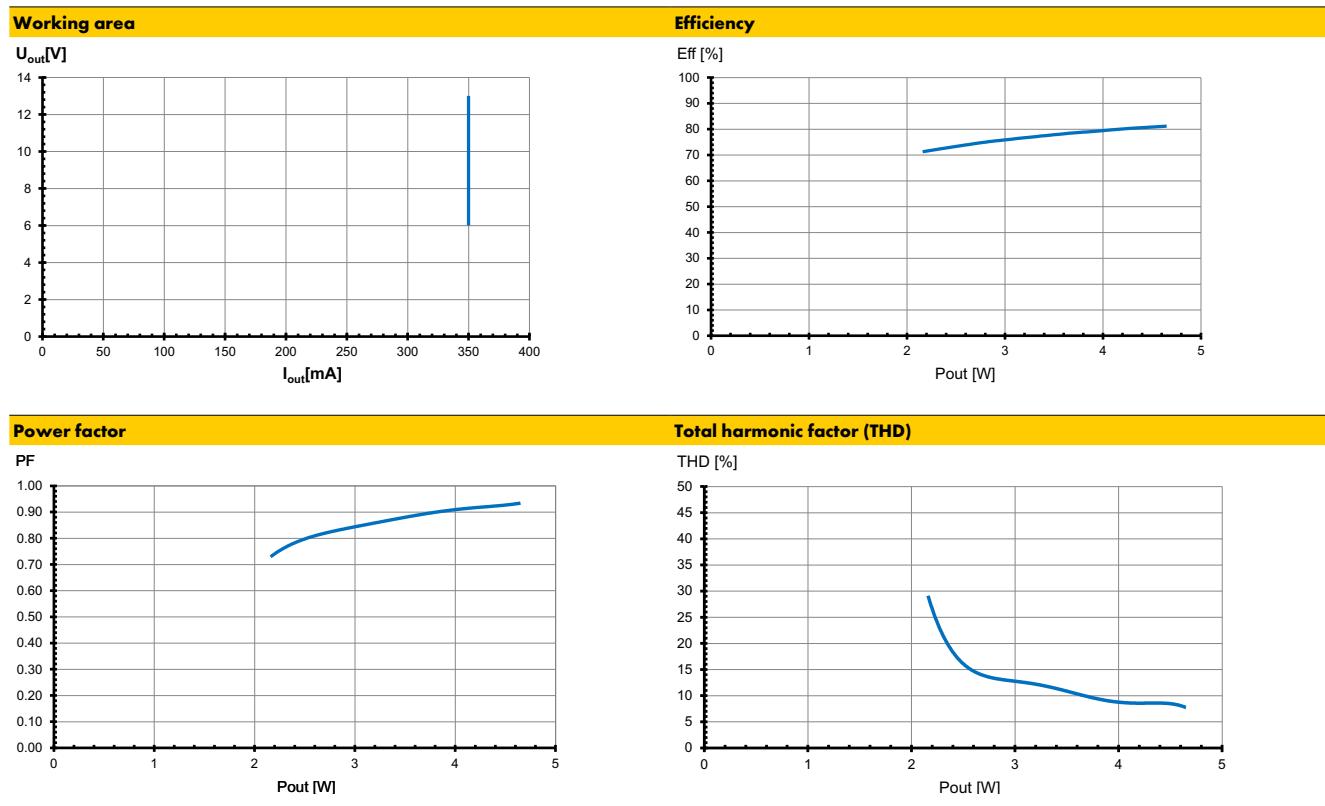
Typ. performance graphs for 187607 / Type ECXd 500.750 at 100 V



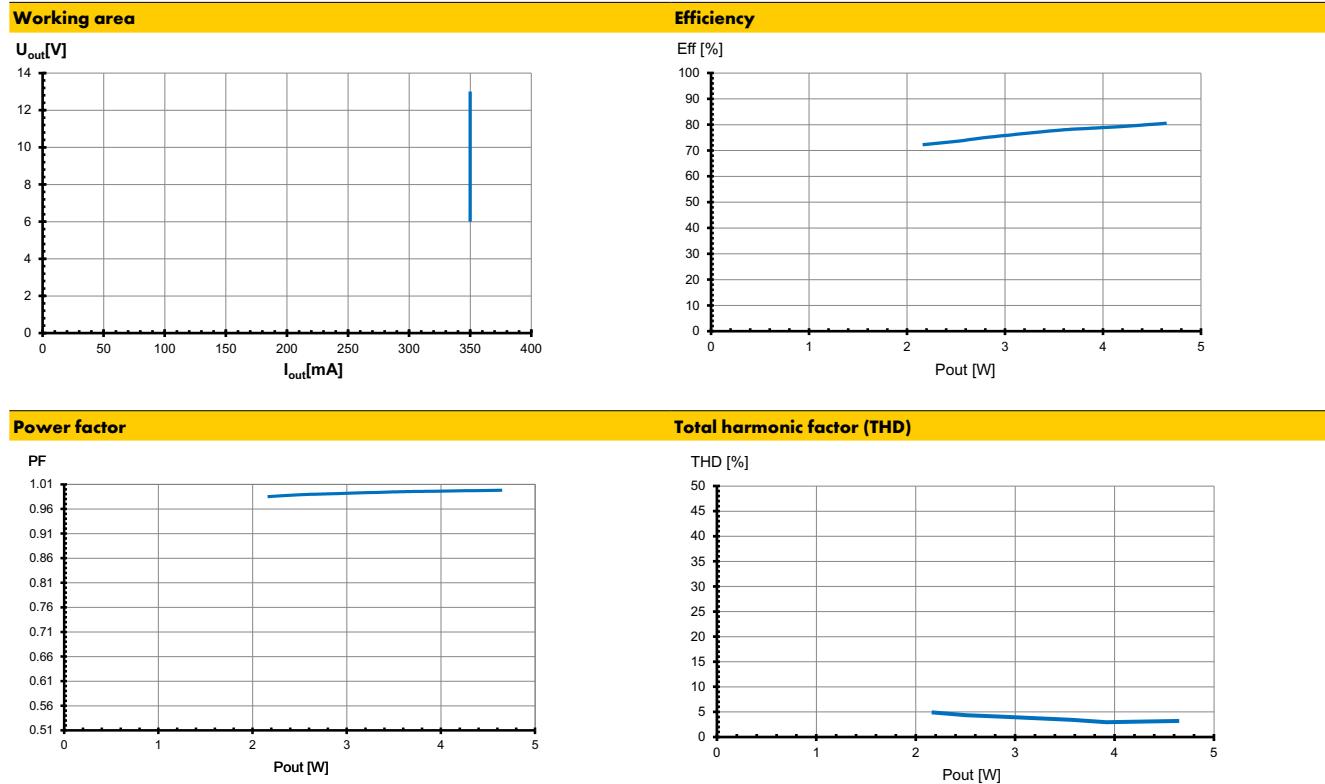
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LED Drivers – ComfortLine Simple Fix Mini Slim DALI2 100V

Typ. performance graphs for 187608 / Type ECXd 350.751 at 230 V



Typ. performance graphs for 187608 / Type ECXd 350.751 at 100 V



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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 gears have overload protection due to limitation of DC output voltage.
Please check before switch-on mains power supply that the selected LED load is suitable (see Electrical Characteristics on data sheet).

- Overheating:

The control gears have overheating protection. In case of overheating the control gear will shut down. For restart switch off the mains for 1 min. and start again.

The temperature reduces the output current of the control gear in the event of overheating.

- 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 VDE 0100
- EN 60598-1

Mechanical mounting

- Mounting position: Independent application: Drivers with integrated cord grip are allowed to use for independent applications.
- 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: Push-in terminals for rigid or flexible conductors with a section of 0.5–1.5 mm²
- Stripped length: 8–9 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.
Max. secondary side lead length for independent drivers: 1 m

- Polarity:

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

- Parallel connection:

At secondary side is not allowed.

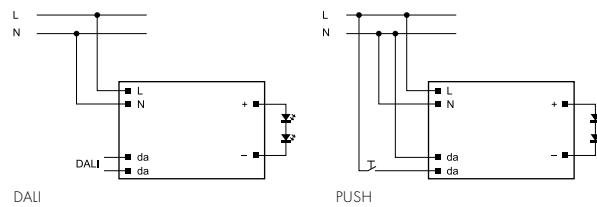
- Through-wiring:

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:



Note: Max. quantity of drivers at one push button: 5

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).

Type	Ref. No.	Automatic cut-out 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 16 A
ECXd 700.748	187605	175	228	280	175	228	280
ECXd 350.749	187606	111	144	177	111	144	177
ECXd 500.750	187607	83	108	133	83	108	133
ECXd 350.751	187608	355	462	569	370	481	592

– 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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