# 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





### 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



### **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 mm<sup>2</sup>
- Power factor at full load: > 0.9
- Standby losses: < 0.5 W
- Open circuit voltage (U<sub>max.</sub>): 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	Boxes	Weight				
	per box	per pallet	g				
187605	50	114	70				
187606	50	114	72				
187607	50	114	78				
187608	50	114	<i>7</i> 1				





50 000

😰 hours





**PUSH** 







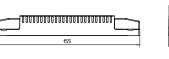


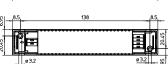




### **Dimensions**

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





### **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.

### 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





### **Dimming**

Analogue



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

CC-ComfortLine-Simple-Fix-MiniSlim-DAU2-100V\_187605-187606\_187607\_187608\_EN - 2/9 - 07/2025

# CC-Comfortline-Simple-Fix-MiniSlim-DALI2-100V\_187605-187606\_187607\_187608\_EN = 3/9 = 07/2025

### **Electrical characteristics**

Мах.	Туре	Ref. No.	Voltage	Mains	Inrush	Current	Voltage	THD	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)	%
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.

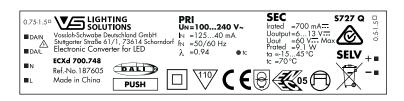
Ref. No.	Ambient temperature		Operation humidity		Storage temperature		Storage humidity		Max. operation	Degree of
	range		range		range		range		temperature at t <sub>c</sub> point	protection
	°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.	°C	
187605, 187606, 187608	-15	+45	10	90	-40	+85	5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

### **Expected service life time**

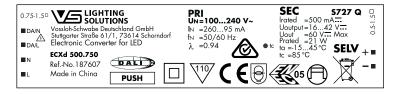
at operation temperatures at t<sub>c</sub> point

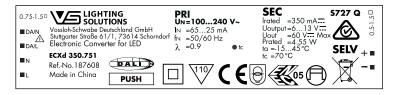
Operation	Ref. No.							
current	187607		187605, 187606, 187608					
Мах.	75 °C	85 °C	60 °C	70 °C				
hrs.	100.000	50.000	100.000	50.000				

### **Product labels**

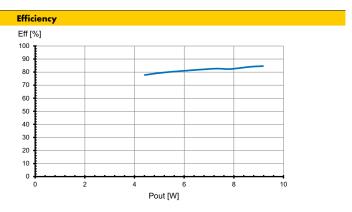


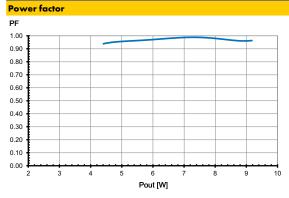


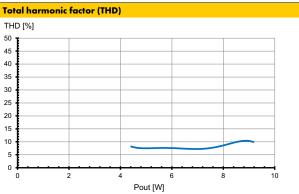




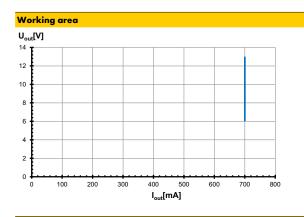


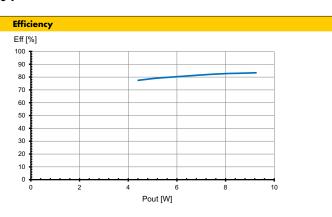


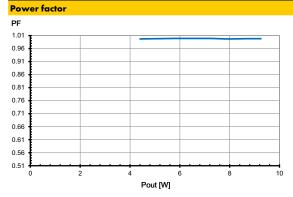


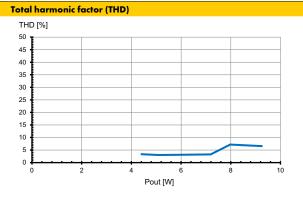


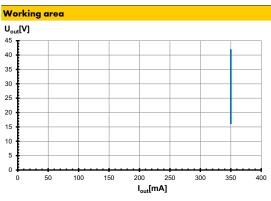
### Typ. performance graphs for 187605 / Type ECXd 700.748 at 100 V

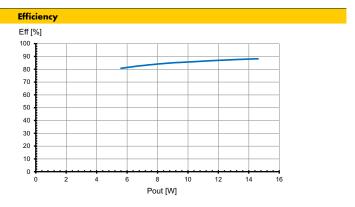


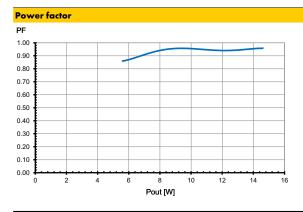


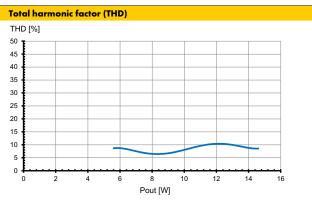




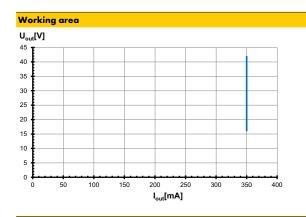


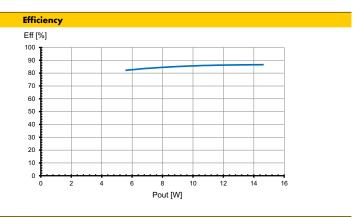


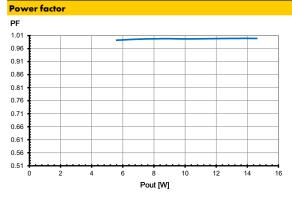


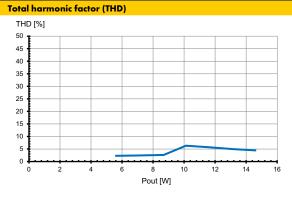


### Typ. performance graphs for 187606 / Type ECXd 350.749 at 100 V

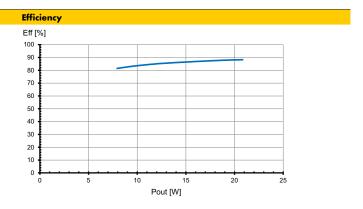


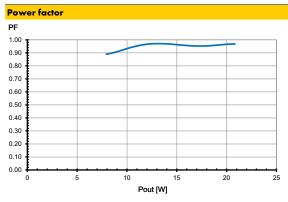


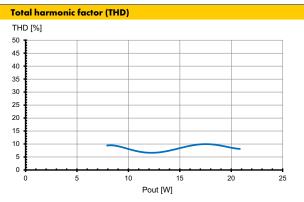




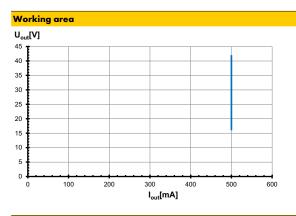


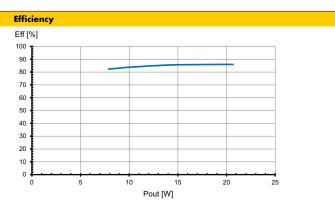


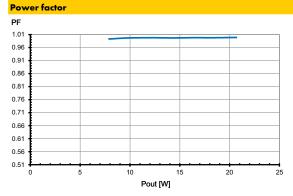


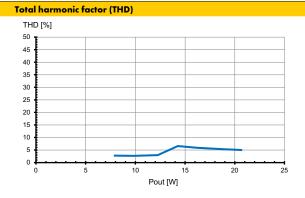


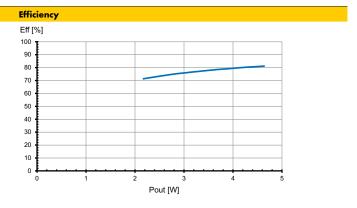
### Typ. performance graphs for 187607 / Type ECXd 500.750 at $100 \, \text{V}$

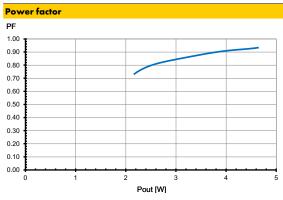


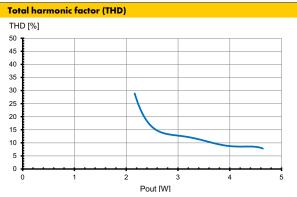




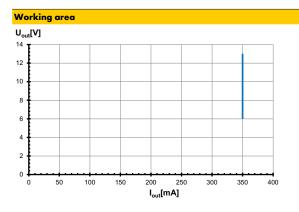


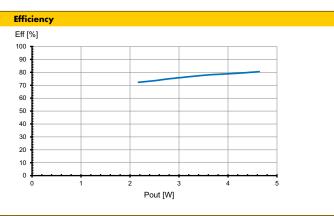


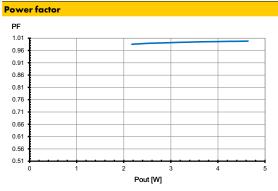


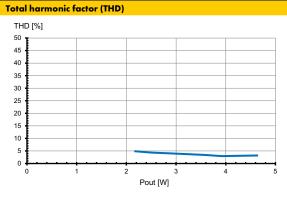


### Typ. performance graphs for 187608 / Type ECXd 350.751 at $100 \, \text{V}$









### LED Drivers - ComfortLine Simple Fix Mini Slim DALI2 100V

### **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

• 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 of 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.



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  $t_{\text{c}}$  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 mm<sup>2</sup>

• 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.

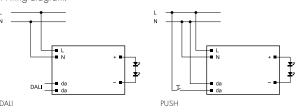
• Through-wiring: Is not allowed

• 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 $\Omega$  (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 cut-out type and possible no. of VS drivers pcs.							
Automatic cut-ou	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.

