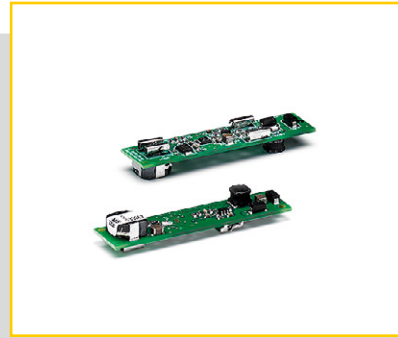


CC TRACK LV SIMPLE FIX



EASYLINE SIMPLE FIX PCB-48 V DC

186832, 186833, 186834, 186835, 186818

Typical Applications

Built-in in adapters for low-voltage systems

- Shop lighting
- Residential lighting



EasyLine Simple Fix PCB-48 V DC

- **VERY LOW RIPPLE CURRENT: < 3%**
- **SELV**
- **LONG SERVICE LIFE:
UP TO 100,000 HRS.**
- **PRODUCT GUARANTEE: 5 YEARS**



EasyLine Simple Fix PCB-48 V DC

Product features

- Built-in PCB 48 V DC

Electrical features

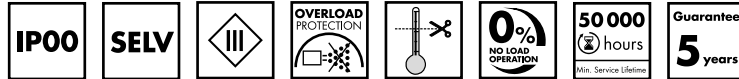
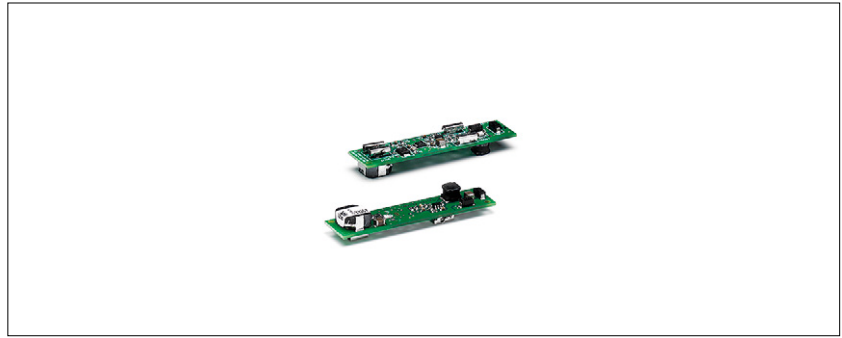
- Mains voltage: 46–50 V DC
- Push-in terminals: 0.2–0.75 mm²
- Secondary side switching of LED modules is not allowed.

Safety features

- Electronic short-circuit protection
- Overload protection
- Overtemperature protection
- Protection against "no load" operation
- Degree of protection: IP00
- Protection class III
- SELV

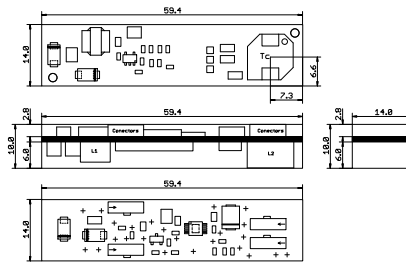
Packaging units

Ref. No.	Packaging unit		
	Pieces per box	Boxes per pallet	Weight g
186832	100	75	6
186833	100	75	6
186834	100	75	6
186835	100	75	6
186818	100	75	6



Dimensions

- PCB
- Length: 59.4 mm
- Width: 14 mm
- Height: 10.2 mm



Applied standards

- EN 61347-1
- EN 61347-2-13
- EN 62384
- EN 55015



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.

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. output W	Type	Ref. No.	Voltage 0 Hz V DC	Mains current mA	Inrush current A / μ s	Current output DC mA (\pm 5%)	Voltage output DC (V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
10	ECXe 250.339	186832	46–50	240–220	30 / 5	250	3–41	> 93	< 3
14	ECXe 350.340	186833	46–50	330–305	30 / 5	350	3–41	> 93	< 3
21	ECXe 500.341	186834	46–50	480–440	30 / 5	500	3–41	> 93	< 3
25	ECXe 600.342	186835	46–50	560–515	30 / 5	600	3–41	> 93	< 3
29	ECXe 700.325	186818	46–50	670–615	30 / 5	700	3–41	> 92	< 3

Maximum ratings

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

Ref. No.	Ambient temperature range		Operation humidity range		Storage temperature range		Storage humidity range		Max. operation temperature at t_c point °C	Degree of protection
	°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.		
All types	-10	+40	5	80	-40	+100	5	95	+100	IP00

Expected service life time

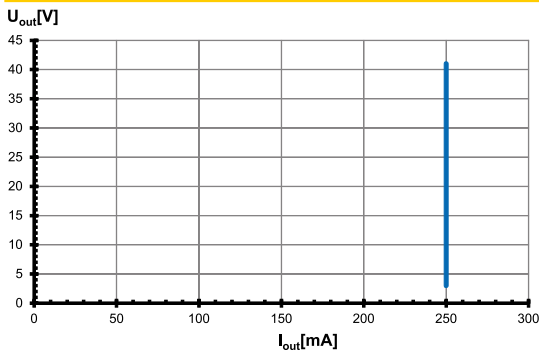
at operation temperatures at t_c point

Operation current	Ref. No.	
	All types	
All	90 °C	100 °C
hrs.	100,000	50,000

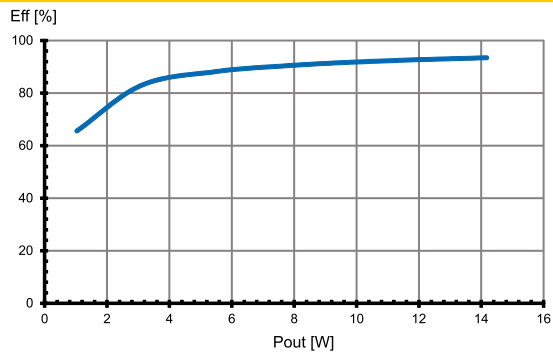
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Typ. performance graphs for 186832 / Type ECXe 250.339

Working area

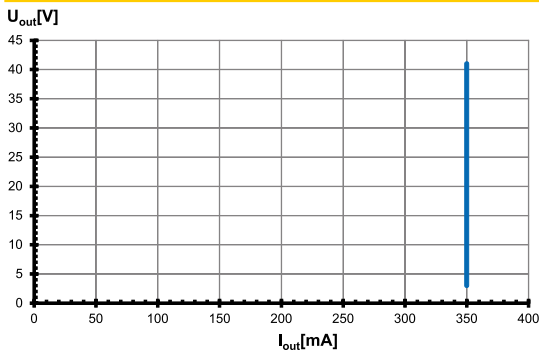


Efficiency

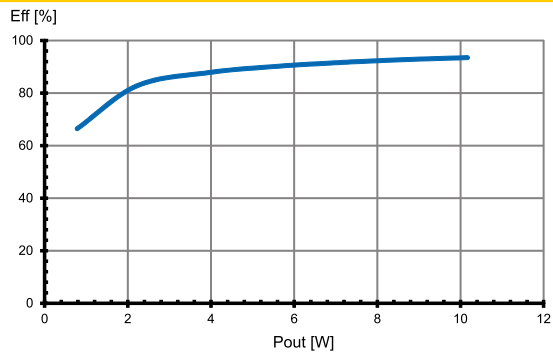


Typ. performance graphs for 186833 / Type ECXe 350.340

Working area

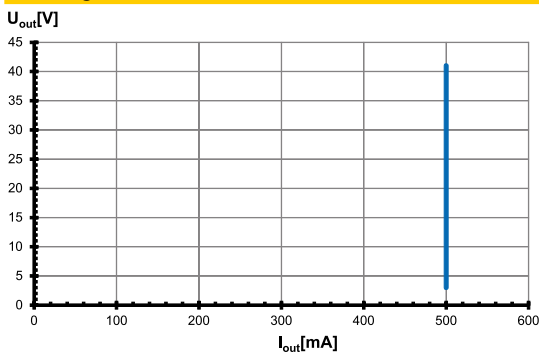


Efficiency

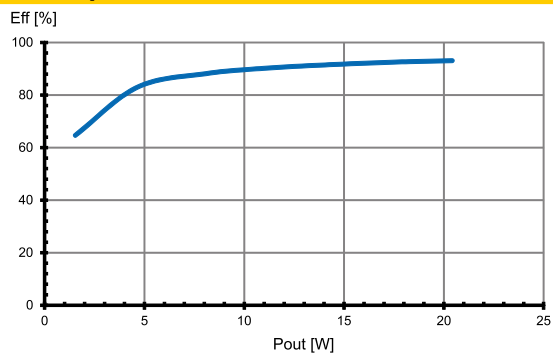


Typ. performance graphs for 186834 / Type ECXe 500.341

Working area



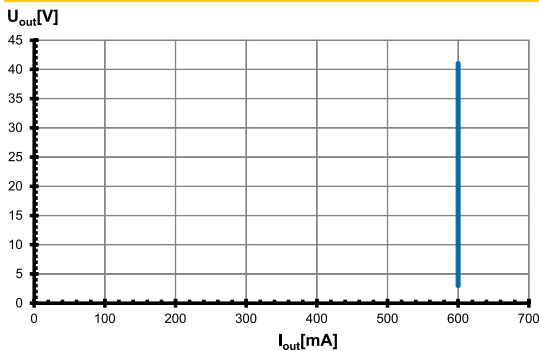
Efficiency



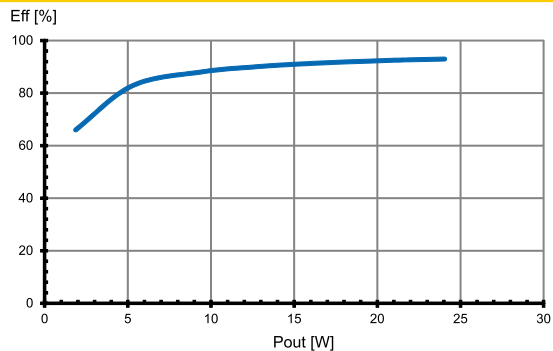
The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

Typ. performance graphs for 186835 / Type ECXe 600.342

Working area

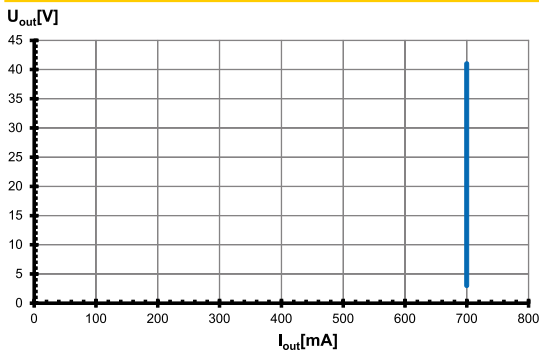


Efficiency

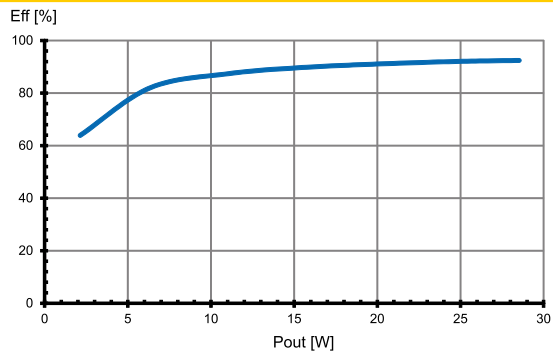


Typ. performance graphs for 186818 / Type ECXe 700.325

Working area



Efficiency



Safety functions

- 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).
- Overheating: The control gear has overheating protection. In case of overheating the output current of the control gear will be reduced. After the temperature will drop below the critical temperature value, the output current rises again to the previously set value.
- 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.

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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

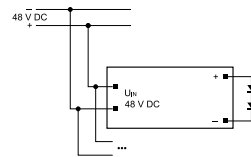
Mechanical mounting

- ESD protection measures: ESD (electrostatic discharge) protection measures must be observed when handling and installing the LED driver PCB. See VS's application notes on ESD protection.
- Mounting position: Built-in: Any position inside the low-voltage adapter is allowed.
- Mounting location: LED drivers are designed for integration into luminaires or comparable devices like low-voltage adapters.
Installation in outdoor luminaires: degree of protection for luminaire with water protection rate ≥ 4 (e.g. IP54 required).
- Degree of protection: IP00
- 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 0.2–0.75 mm²
- Stripped length: 7.5–9.5 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: 0.5 m
- 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.
- Parallel wiring: Parallel connection of LED loads is not allowed.
- Wiring diagram:



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