

CC COMPACT



EASYLINE SIMPLE FIX C 100 V

187263, 187266, 187268, 187269, 187359, 187393

Typical Applications

Built-in in or independent version for

- Shop lighting
- Downlights
- Residential lighting



EasyLine Simple Fix C 100 V

- **WIDE INPUT VOLTAGE RANGE: 100-240 V**
- **VERY COMPACT SHAPE**
- **LONG SERVICE LIFE:
UP TO 50,000 HRS.**
- **PRODUCT GUARANTEE: 5 YEARS**



LED Drivers EasyLine Simple Fix C 100 V

Product features

- Compact casing shape
- 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: see table "Electrical characteristics" on page 4
- Max. operation voltage without load ($U_{max.}$): 60 V
- Secondary side switching of LED modules is not allowed.

Safety features

- Protection against transient main peaks between L and N up to 0.5 kV and up to 1 kV (for 187268, 187269)
- Electronic short-circuit protection
- Overload 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
187263	50	60	98
187266	50	60	98
187268	20	100	140
187269	20	100	275
187359	50	72	76
187393	50	72	76



Dimensions

Ref. No.	Casing	Length a (mm)	Width b (mm)	Height c (mm)
EasyLine Simple Fix C 100 V				
187263	K51.2	115	45	29
187266	K51.2	115	45	29
187268	K27	105	68	32
187269	K27	105	68	32
187359	K52	123	45	19
187393	K52	123	45	19

Used standards

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



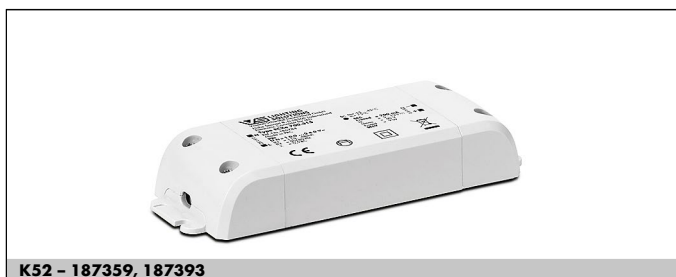
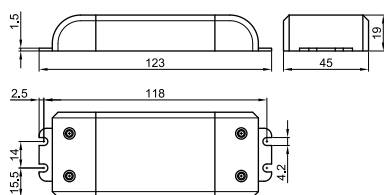
Product guarantee

- 5 years
for operation at recommended operation temperature (see table for expected service life time on page 4)
- 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.

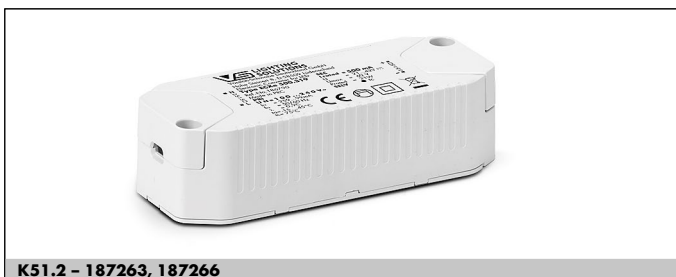
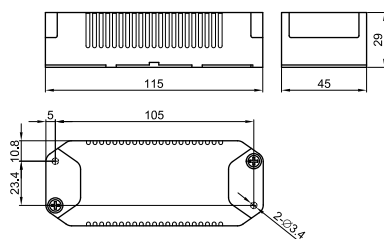
Product drawings and photos

K52



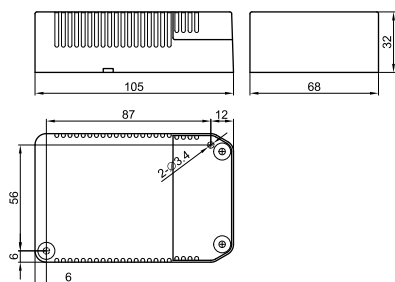
K52 – 187359, 187393

K51.2



K51.2 – 187263, 187266

K27



K27 – 187268, 187269

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LED Drivers – EasyLine Simple Fix C 100 V

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 ($\pm 7.5\%$)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Efficiency at full load % (100 V)	Ripple 100 Hz %
9	ECXe700.645	187359	100–240	125/47	15/192	700	5–13	13	81	79	<5
16	ECXe350.588	187393	100–240	206/81	11/138	350	23–46	7	88	84	<5
21	ECXe500.589	187263	100–240	275/90	18/247	500	21–42	6	87	83	<5
21	ECXe700.592	187266	100–240	287/95	18/246	700	10–29	7	85	81	<5
30	ECXe700.594	187268	100–240	365/150	30/258	700	21–43	6	89	84	<5
44	ECXe1050.595	187269	100–240	530/212	28/314	1050	21–42	6	89	85	<5

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	Max. operation temperature at t_c point	Degree of protection
	$^{\circ}\text{C min.}$ $^{\circ}\text{C max.}$	$\% \text{ min.}$ $\% \text{ max.}$	$^{\circ}\text{C min.}$ $^{\circ}\text{C max.}$	$\% \text{ min.}$ $\% \text{ max.}$	$^{\circ}\text{C max.}$	
187359, 187263, 187266, 187268	–15 +45	20 60	–40 +80	5 95	+75	IP20
187269, 187393	–15 +45	20 60	–40 +80	5 95	+85	IP20

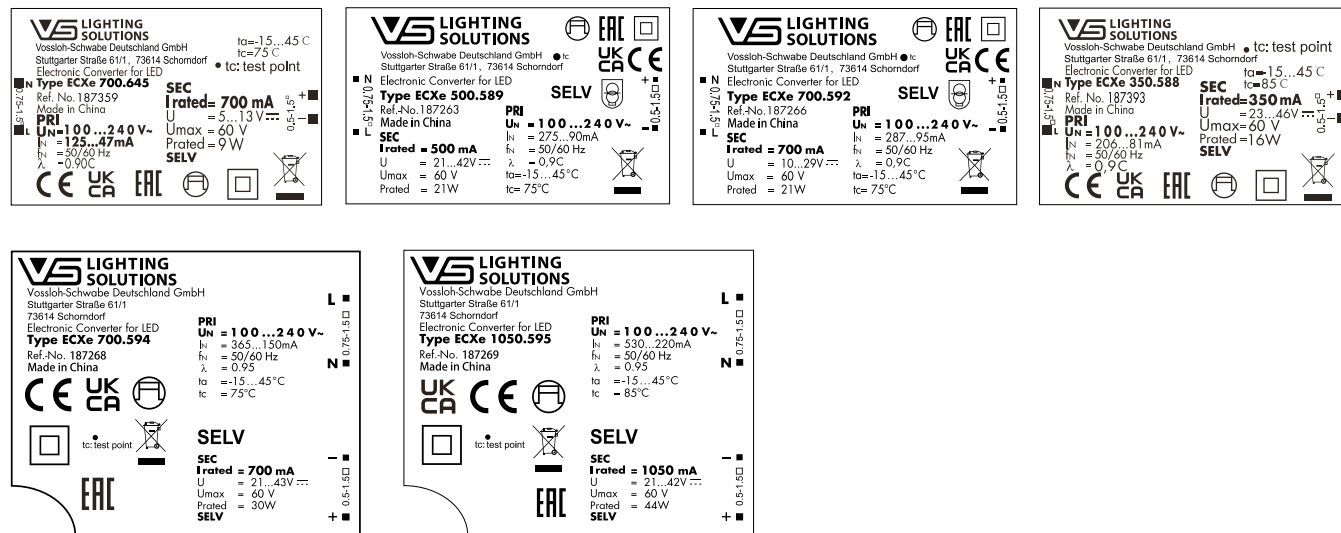
Expected service life time

at operation temperatures at t_c point

Operation current	Ref. No.			
	187269, 187393		187359, 187263, 187266, 187268	
all	75 °C*	85 °C	65 °C*	75 °C
hrs.	50.000	30.000	50.000	30.000

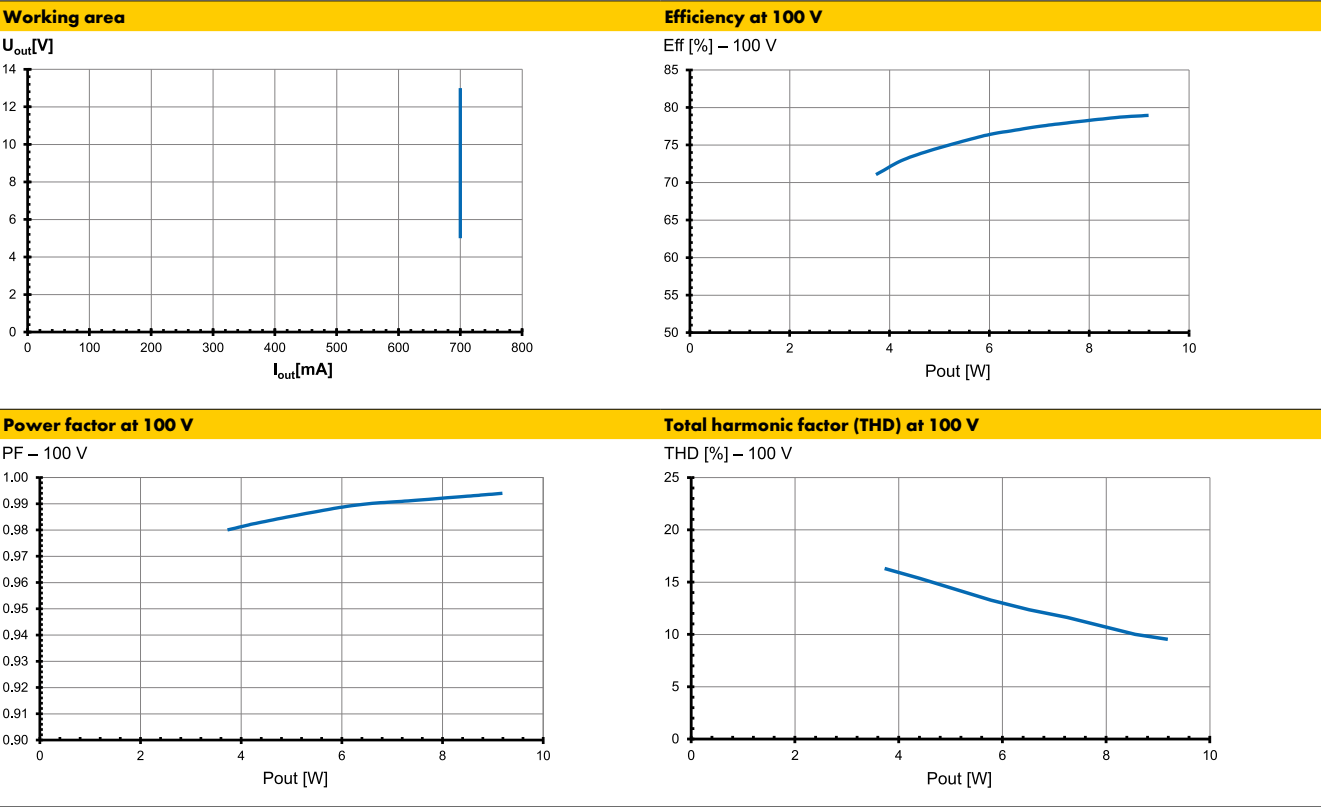
* recommended operation temperature

Product labels

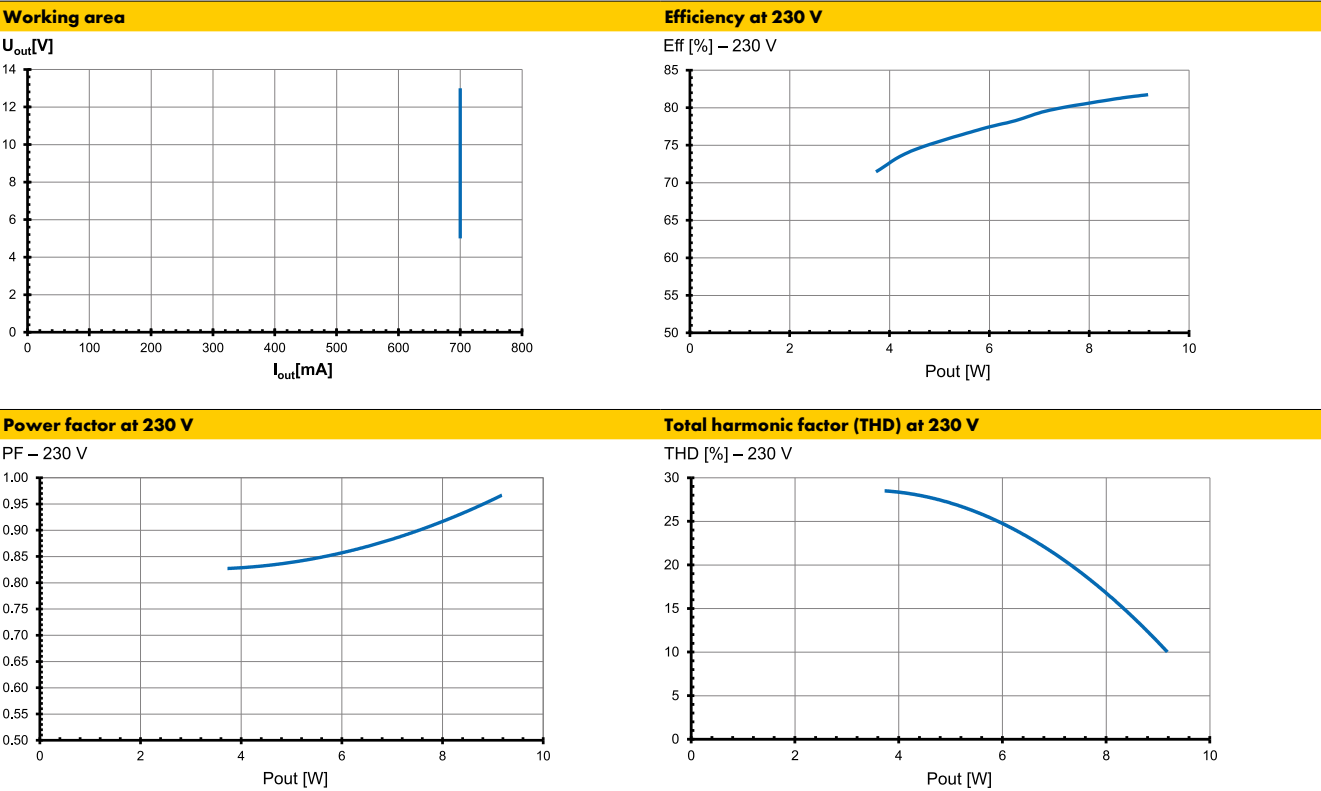


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Typ. performance graphs for 187359 / Type ECXe 700.645

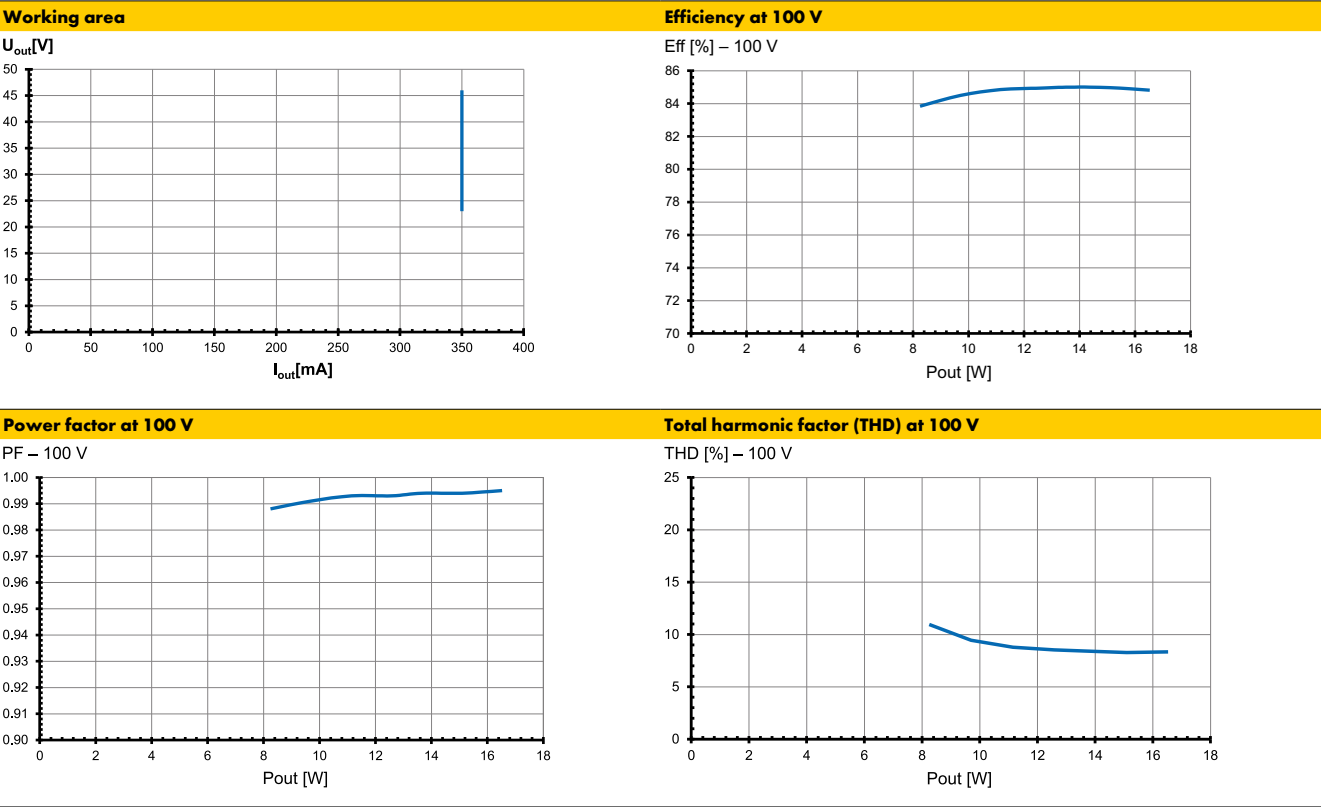


Typ. performance graphs for 187359 / Type ECXe 700.645

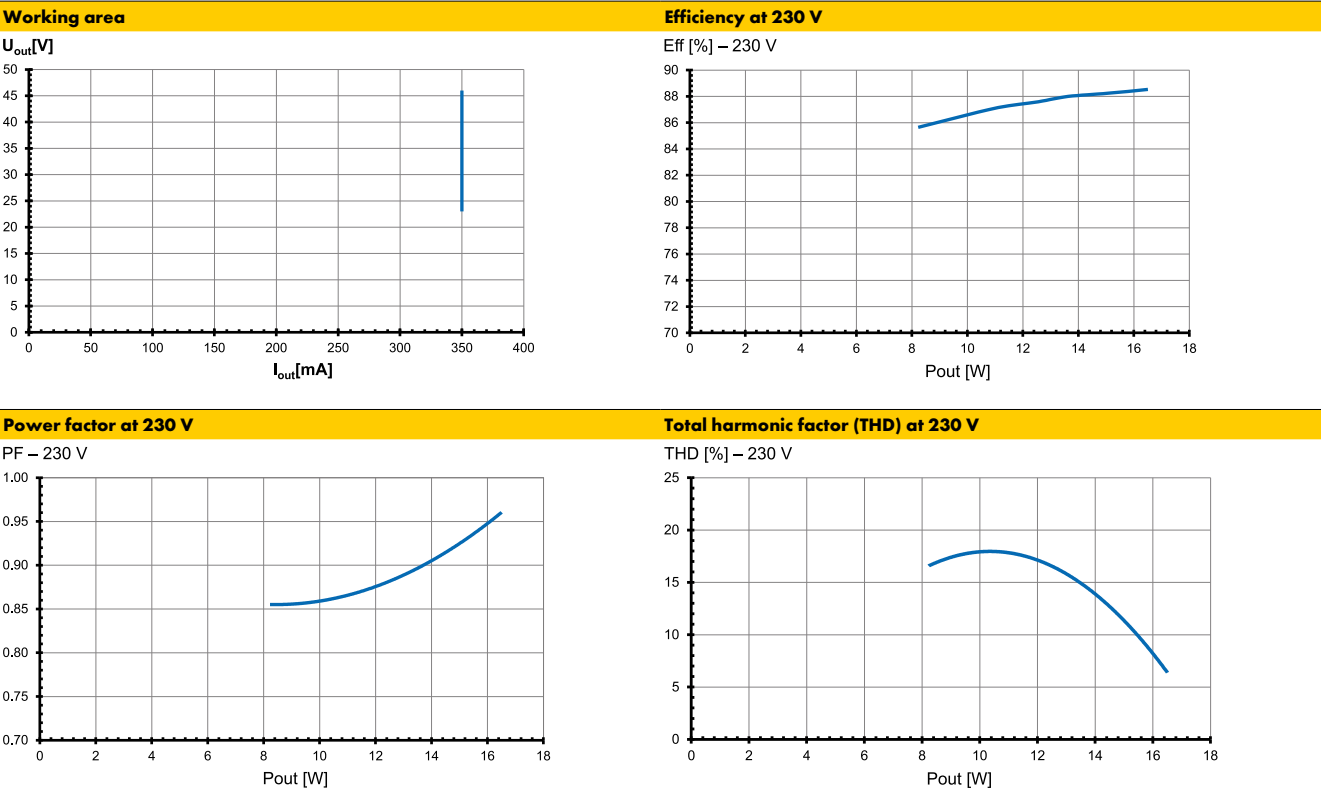


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Typ. performance graphs for 187393 / Type ECXe 350.588

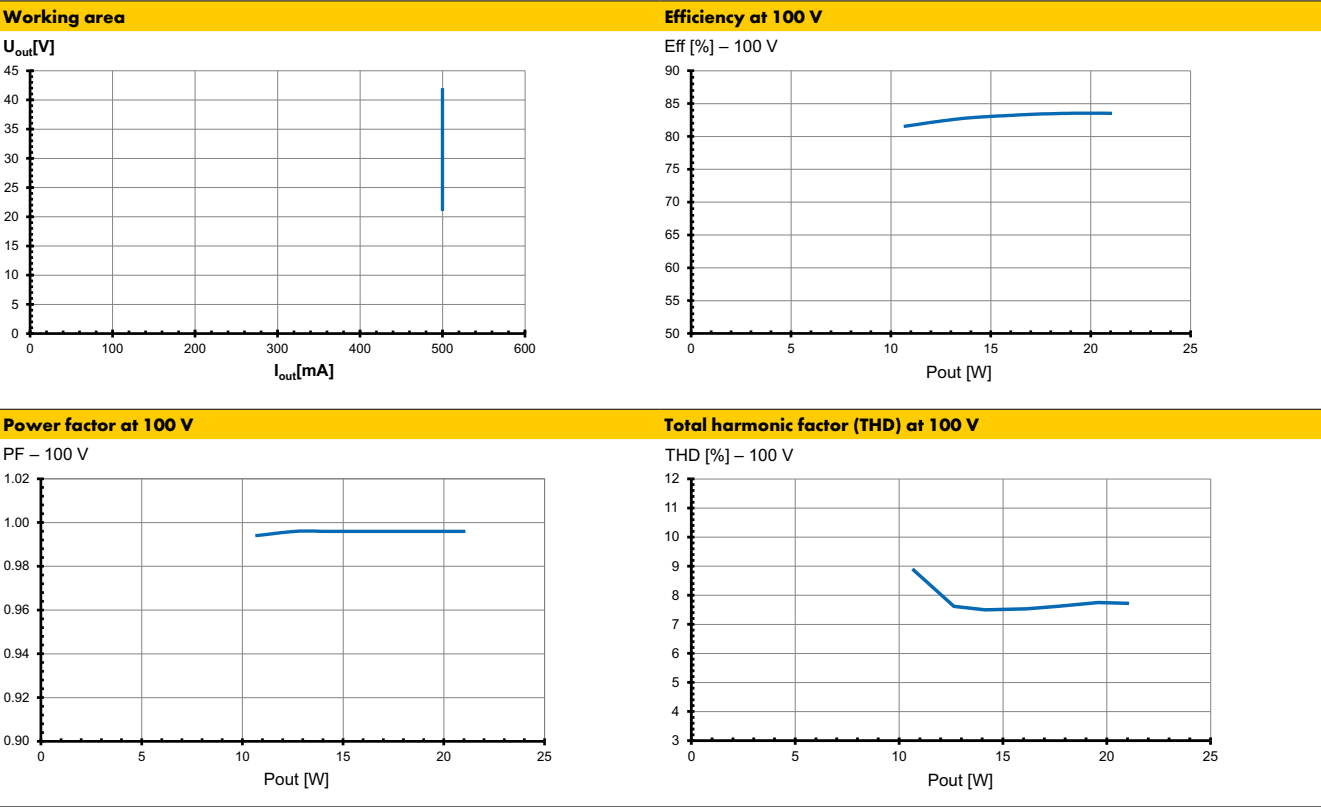


Typ. performance graphs for 187393 / Type ECXe 350.588

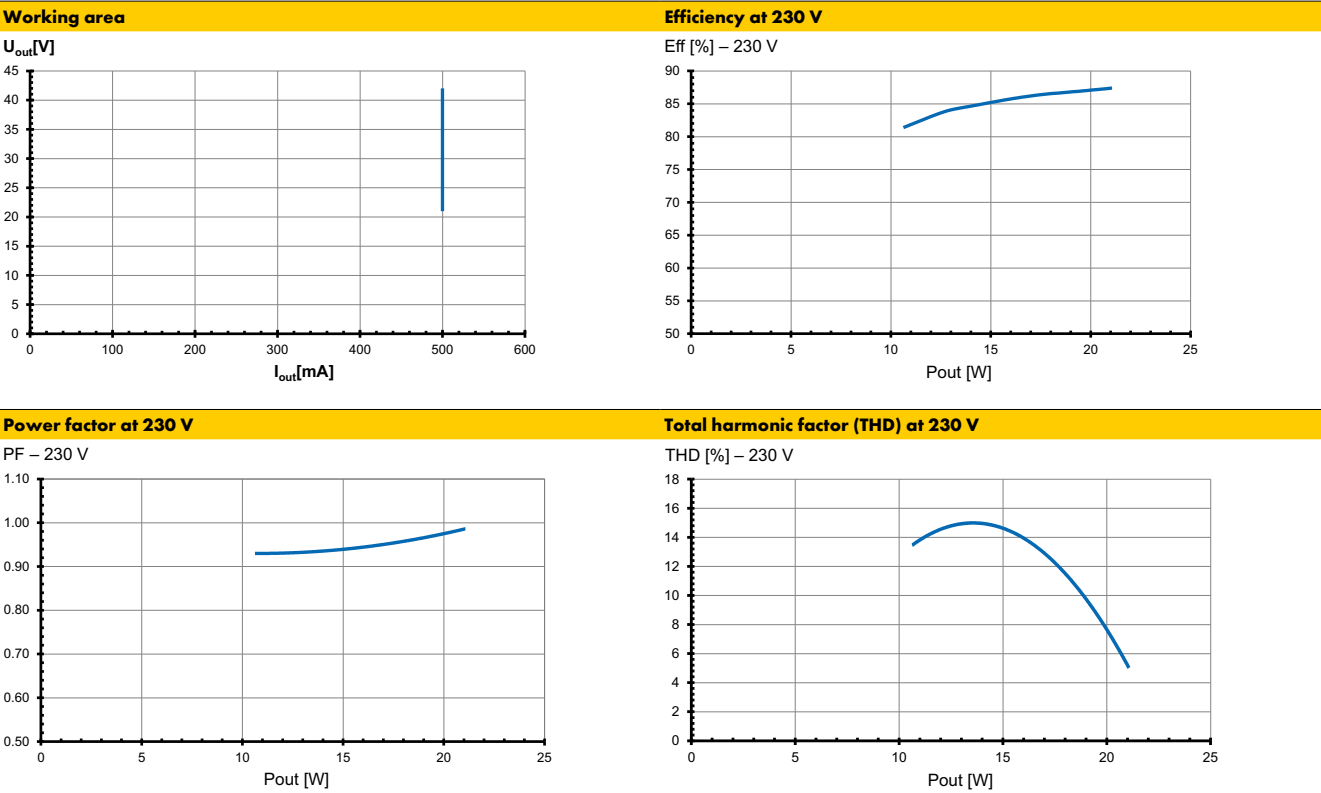


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Typ. performance graphs for 187263 / Type ECXe 500.589

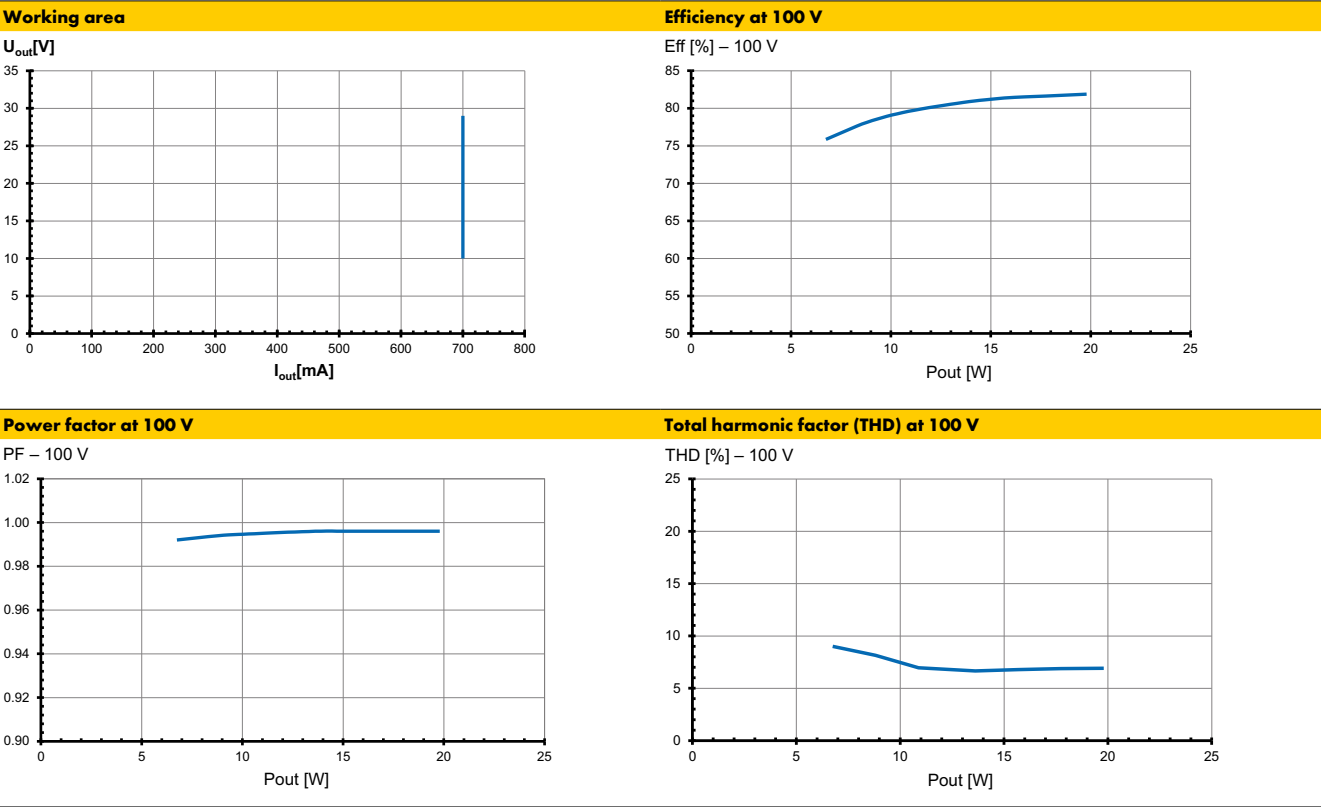


Typ. performance graphs for 187263 / Type ECXe 500.589

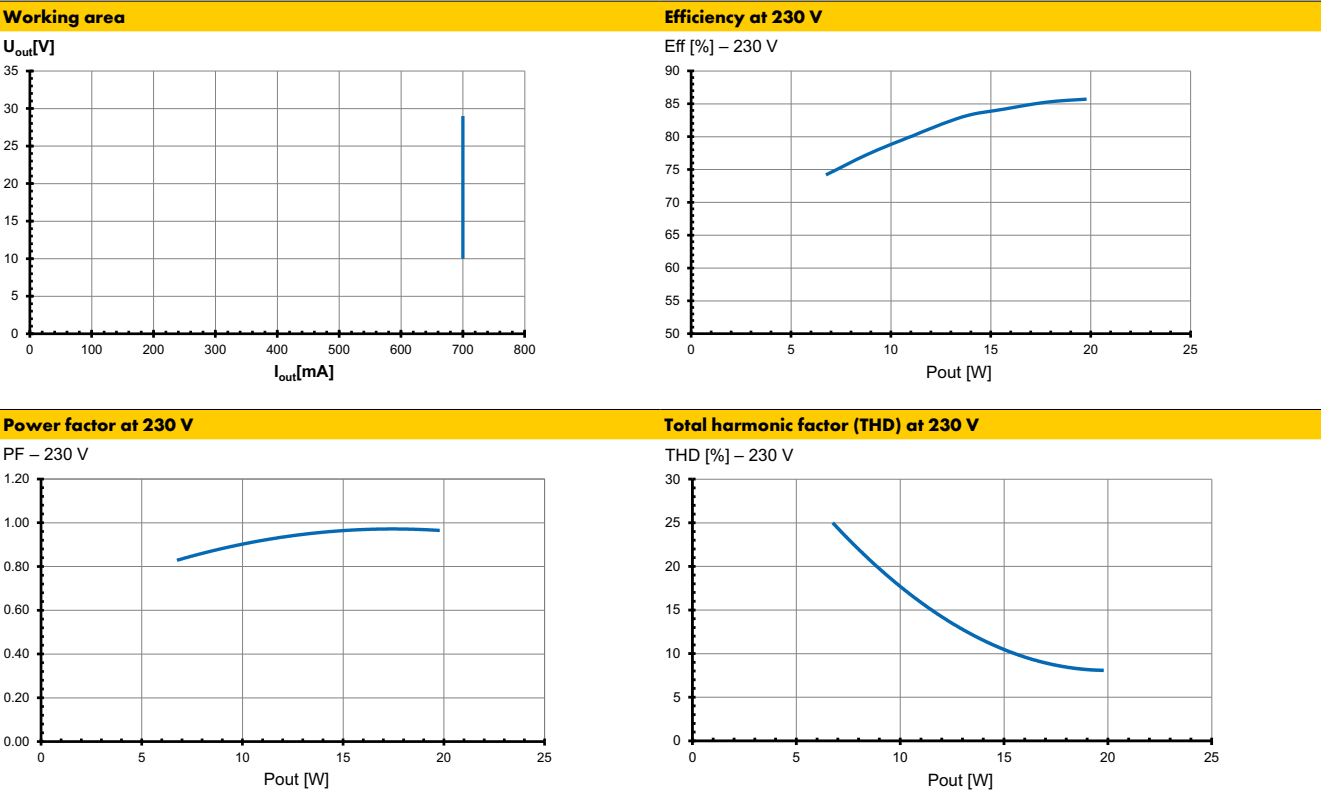


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Typ. performance graphs for 187266 / Type ECXe 700.592

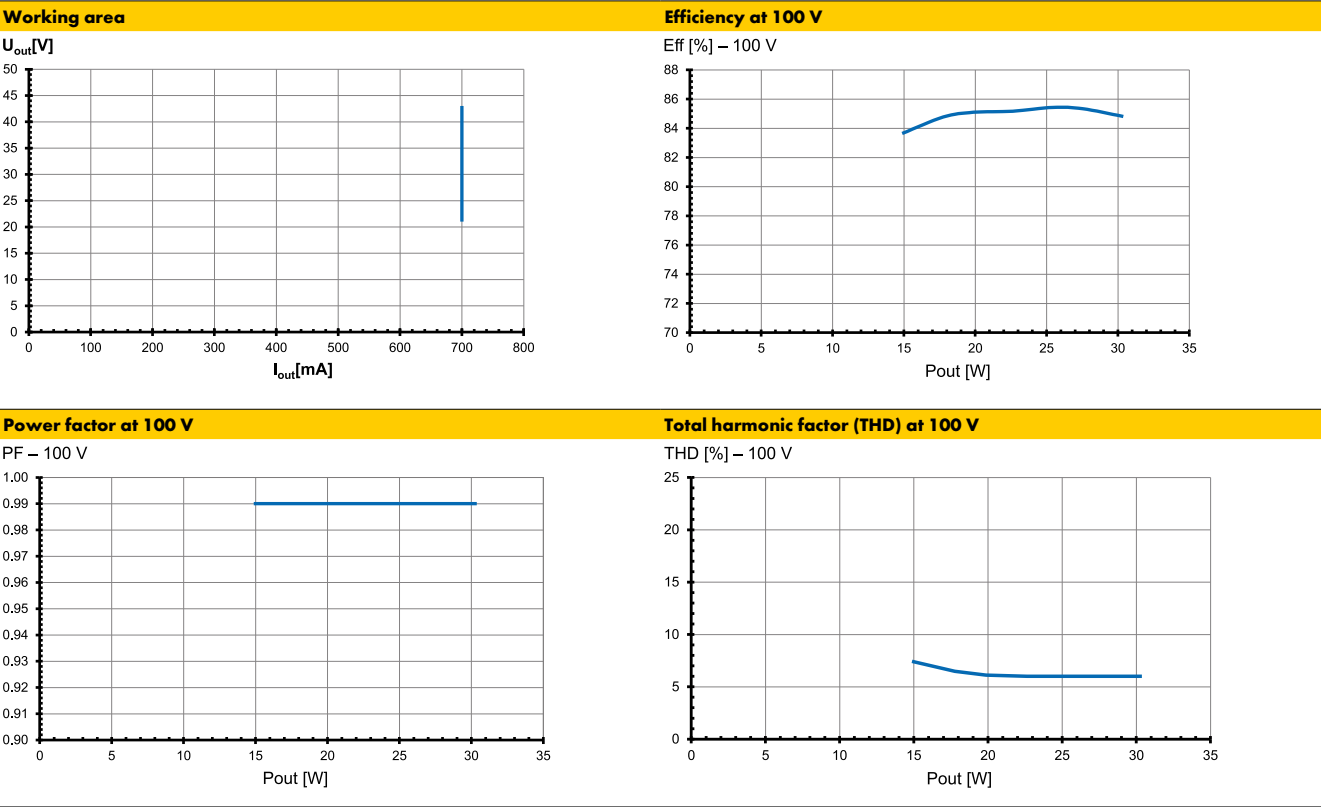


Typ. performance graphs for 187266 / Type ECXe 700.592

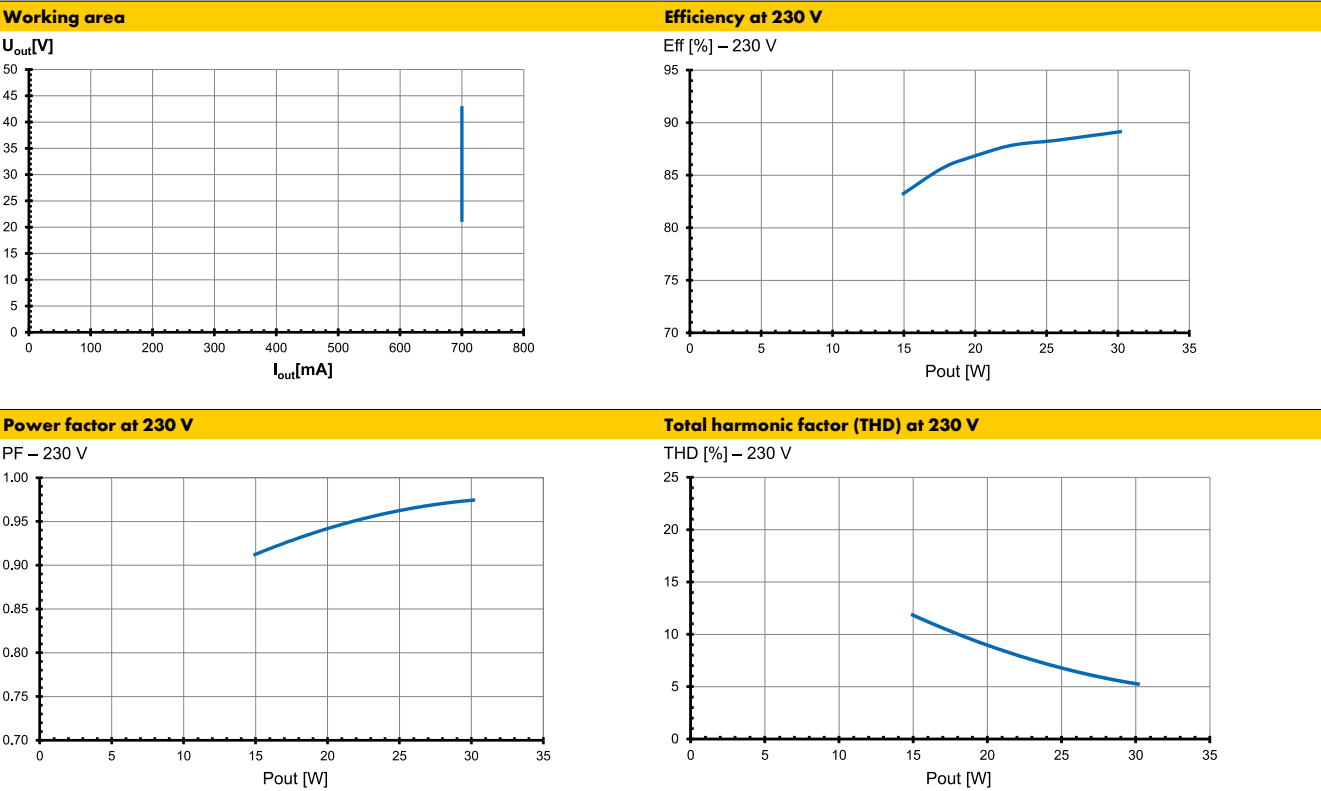


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Typ. performance graphs for 187268 / Type ECXe 700.594

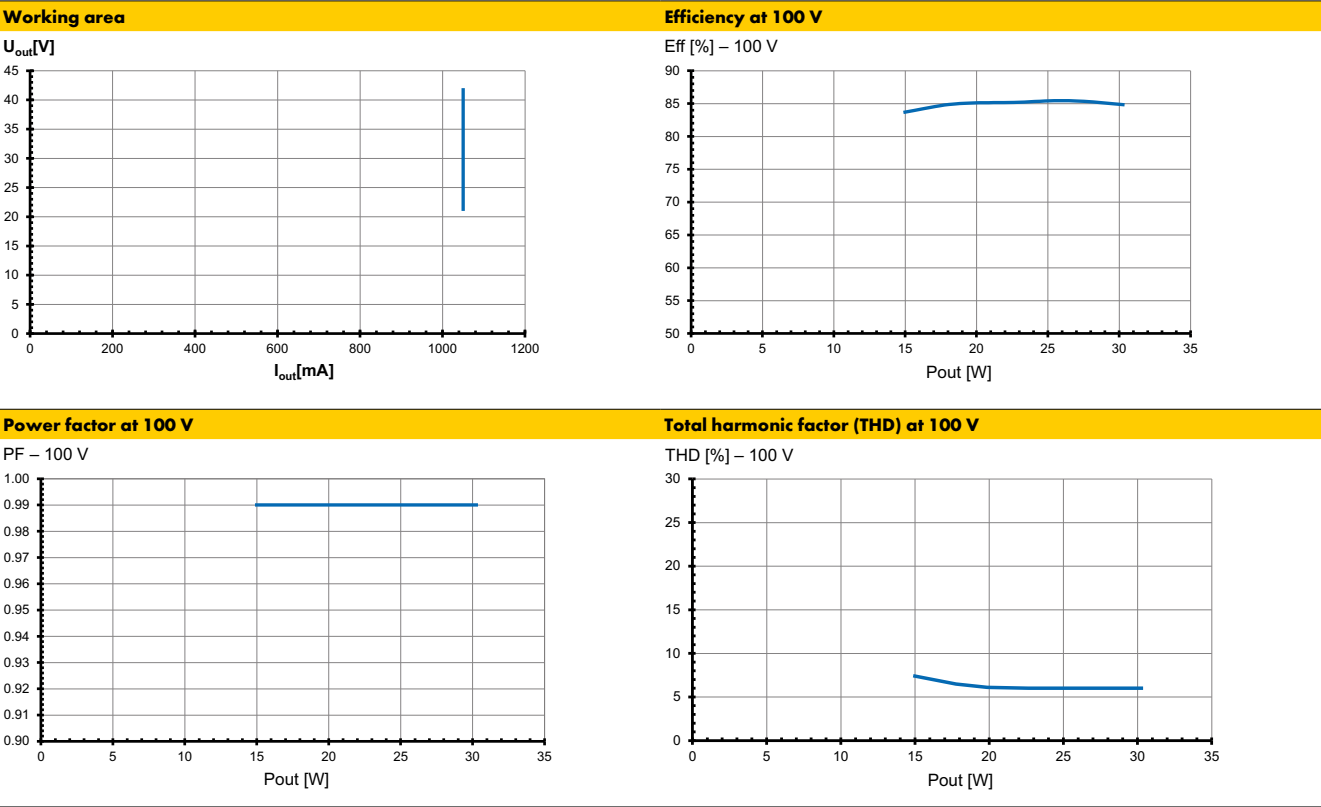


Typ. performance graphs for 187268 / Type ECXe 700.594

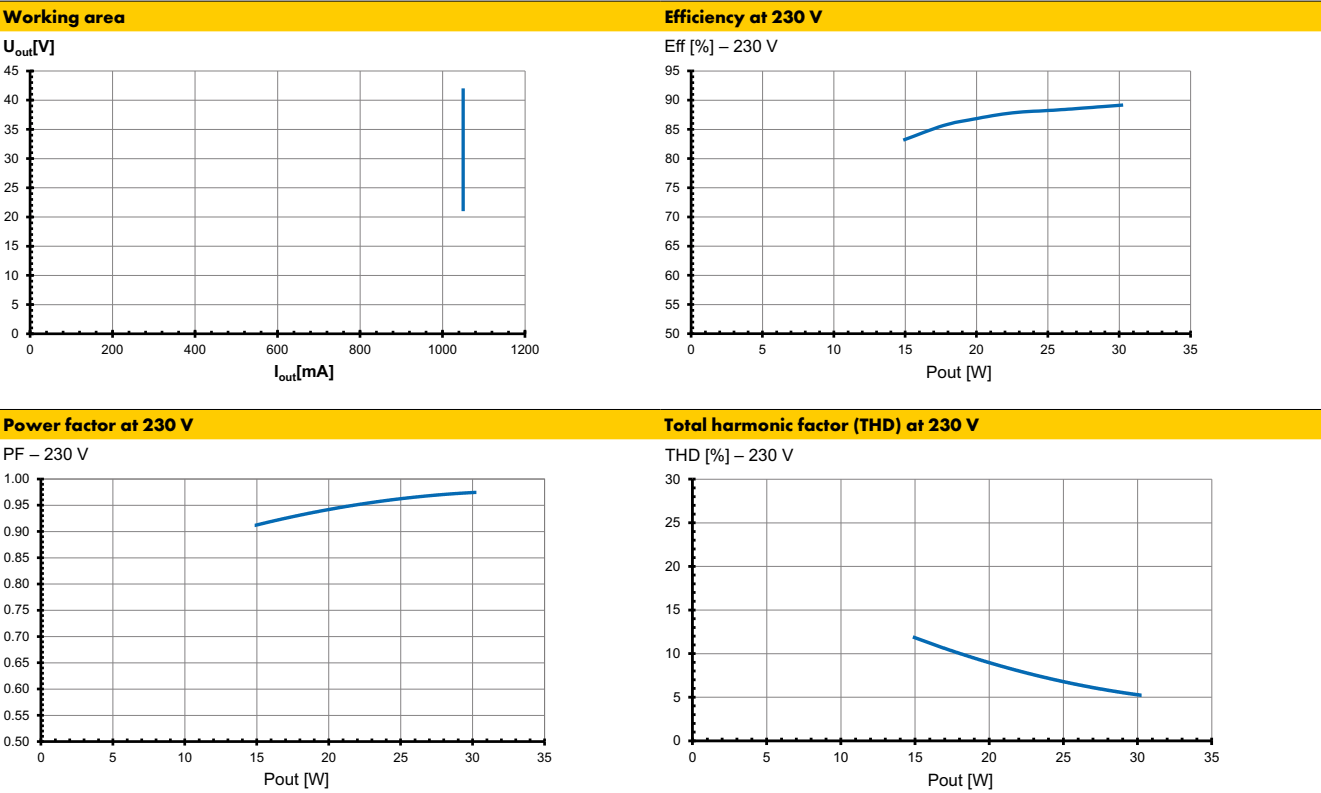


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Typ. performance graphs for 187269 / Type ECXe 1050.595



Typ. performance graphs for 187269 / Type ECXe 1050.595



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Safety functions

- Transient mains peaks protection:
Values are in compliance with EN 61547
(interference immunity).
Surges between L–N:
187359, 187263, 187266 up to 0.5 kV
187268, 187269 up to 1 kV
- Short-circuit protection: The control gear is protected against
short-term short-circuit
- 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).
- 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, dis-
connect 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

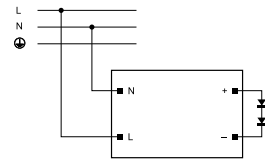
- Mounting position: Independent application: Drivers are allowed to use for independent applications
- Mounting location: Independent LED drivers do not need to be integrated into a casing.
Installation in outdoor luminaires: degree of protection for luminaire with water protection rate ≥ 4 (e.g. IP54 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 M3 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 0.5–2.5 mm²
- 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.
Max. secondary side lead length: 1 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:



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 mΩ (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		B10	B13	B16	B20
ECXe700.645	187359	28	37	45	56
ECXe350.588	187393	44	58	71	89
ECXe500.589	187263	18	23	29	36
ECXe700.592	187266	18	23	29	36
ECXe700.594	187268	10	13	16	20
ECXe1050.595	187269	9	11	14	18
Automatic cut-out type		C10	C13	C16	C20
ECXe700.645	187359	47	61	75	94
ECXe350.588	187393	44	58	71	89
ECXe500.589	187263	30	39	48	60
ECXe700.592	187266	30	39	48	60
ECXe700.594	187268	17	22	27	34
ECXe1050.595	187269	15	19	24	30

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