

CC COMPACT SIMPLE FIX



EasyLine Simple Fix C

**187621, 187622, 187623, 187624, 187625, 187626, 187678,
187679, 187680, 187681, 187682, 187683, 187684, 187685**

Typical Applications

Built-in in compact luminaires for

- Retail lighting
- Downlights
- Panel lighting
- Residential lighting



EasyLine Simple Fix C

- **WITH INTEGRATED CORD GRIP FOR INDEPENDENT OPERATION**
- **SELV**
- **LONG SERVICE LIFE:
UP TO 50,000 HRS.**
- **PRODUCT GUARANTEE: 5 YEARS**



EasyLine Simple Fix C

Product features

- Compact casing shape

Electrical features

- Mains voltage: 220–240 V $\pm 10\%$
- Mains frequency: 50–60 Hz
- Push-in terminals primary: 0.75–1.5 mm², secondary: 0.3–1.5 mm²
- Power factor at full load: > 0.9
- Open circuit voltage ($U_{max.}$): 60 V
- Secondary side switching of LED modules is not allowed.

Safety features

- Protection against transient main peaks (between L and N) up to 1 kV
- 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
187678	50	56	61
187679	50	56	61
187680	50	56	61
187681	50	56	61
187682	50	56	66
187683	50	56	66
187684	50	56	66
187685	50	56	66
187621	50	56	80
187622	50	56	80
187623	50	56	80
187624	50	56	80
187625	50	56	80
187626	50	56	150

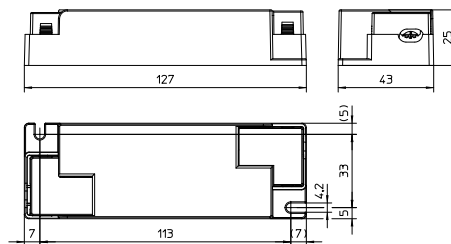
The LED driver and the cord grips are supplied separately in the same box.



Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
All types	K97	127	43	25

K97



Applied 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 the next page)
- 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.

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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)	Ripple 100 Hz %
4	ECXe 100.792	187678	220–240	30	11.5 / 160	100	30–40	10	78	<5
6	ECXe 150.793	187679	220–240	35	11.5 / 160	150	30–40	13	82	<5
8	ECXe 200.794	187680	220–240	50	11.5 / 160	200	30–40	8	84	<5
10	ECXe 250.795	187681	220–240	60	11.5 / 160	250	30–40	6	85.5	<5
12	ECXe 300.796	187682	220–240	70	11.7 / 174	300	30–40	9	85.5	<5
14	ECXe 350.797	187683	220–240	80	11.7 / 174	350	30–40	7	86.5	<5
16	ECXe 400.798	187684	220–240	90	11.7 / 174	400	30–40	6	87	<5
18	ECXe 450.799	187685	220–240	100	11.7 / 174	450	30–40	6	87	<5
20	ECXe 500.752	187621	220–240	130	18.7 / 218	500	30–40	9	87.5	<5
24	ECXe 600.753	187622	220–240	150	18.7 / 218	600	30–40	7	88.5	<5
28	ECXe 700.754	187623	220–240	175	18.7 / 218	700	30–40	7	88.5	<5
32	ECXe 800.755	187624	220–240	190	18.7 / 218	800	30–40	6	89	<5
36	ECXe 900.756	187625	220–240	210	18.7 / 218	900	30–40	9	89	<5
42	ECXe 1050.757	187626	220–240	240	20.9 / 286	1050	30–40	5	90	<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 range		Max. operation temperature at t_c point °C	Degree of protection
	°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.		
187678, 187679, 187680, 187681	–20	+40	10	90	–40	+85	5	95	+70	IP20
187682, 187683									+75	
187621, 187622, 187623, 187684, 187685									+80	
187624, 187625, 187626									+85	

Expected service life time

at operation temperatures at t_c point

Operation current	Ref. No.							
	187678, 187679, 187680, 187681		187682, 187683		187621, 187622, 187623, 187684, 187685			187624, 187625, 187626
All	60 °C	70 °C	65 °C	75 °C	70 °C		80 °C	75 °C 85 °C
hrs.	50.000	30.000	50.000	30.000	50.000		30.000	50.000 30.000

* recommended operation temperature

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Product labels

VSL LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1, 73614 Schorndorf
Electronic Converter for LED

5727 Q 

ECXe 100.792
Ref.-No. 187678
Made in China

SEC
Irated = 100mA
Uoutput = 30...40V...
Uout = 60V... Max
Prated = 4W
SELV

PRI
UN = 220...240V~
In = 30mA
fn = 50/60Hz
λ = 0.9C...0.96

VSL LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1, 73614 Schorndorf
Electronic Converter for LED

5727 Q 

ECXe 150.793
Ref.-No. 187679
Made in China

SEC
Irated = 150mA
Uoutput = 30...40V...
Uout = 60V... Max
Prated = 6W
SELV

PRI
UN = 220...240V~
In = 35mA
fn = 50/60Hz
λ = 0.9C...0.96

VSL LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1, 73614 Schorndorf
Electronic Converter for LED

5727 Q 

ECXe 200.794
Ref.-No. 187680
Made in China

SEC
Irated = 200mA
Uoutput = 30...40V...
Uout = 60V... Max
Prated = 8W
SELV

PRI
UN = 220...240V~
In = 50mA
fn = 50/60Hz
λ = 0.95...0.98

VSL LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1, 73614 Schorndorf
Electronic Converter for LED

5727 Q 

ECXe 250.795
Ref.-No. 187681
Made in China

SEC
Irated = 250mA
Uoutput = 30...40V...
Uout = 60V... Max
Prated = 10W
SELV

PRI
UN = 220...240V~
In = 60mA
fn = 50/60Hz
λ = 0.95...0.98

VSL LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1, 73614 Schorndorf
Electronic Converter for LED

5727 Q 

ECXe 300.796
Ref.-No. 187682
Made in China

SEC
Irated = 300mA
Uoutput = 30...40V...
Uout = 60V... Max
Prated = 12W
SELV

PRI
UN = 220...240V~
In = 70mA
fn = 50/60Hz
λ = 0.9C...0.98

VSL LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1, 73614 Schorndorf
Electronic Converter for LED

5727 Q 

ECXe 350.797
Ref.-No. 187683
Made in China

SEC
Irated = 350mA
Uoutput = 30...40V...
Uout = 60V... Max
Prated = 14W
SELV

PRI
UN = 220...240V~
In = 80mA
fn = 50/60Hz
λ = 0.95...0.98

VSL LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1, 73614 Schorndorf
Electronic Converter for LED

5727 Q 

ECXe 400.798
Ref.-No. 187684
Made in China

SEC
Irated = 400mA
Uoutput = 30...40V...
Uout = 60V... Max
Prated = 16W
SELV

PRI
UN = 220...240V~
In = 90mA
fn = 50/60Hz
λ = 0.95...0.98

VSL LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1, 73614 Schorndorf
Electronic Converter for LED

5727 Q 

ECXe 450.799
Ref.-No. 187685
Made in China

SEC
Irated = 450mA
Uoutput = 30...40V...
Uout = 60V... Max
Prated = 18W
SELV

PRI
UN = 220...240V~
In = 100mA
fn = 50/60Hz
λ = 0.95...0.98

VSL LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1, 73614 Schorndorf
Electronic Converter for LED

5727 Q 

ECXe 500.752
Ref.-No. 187621
Made in China

SEC
Irated = 500mA
Uoutput = 30...40V...
Uout = 60V... Max
Prated = 20W
SELV

PRI
UN = 220...240V~
In = 130mA
fn = 50/60Hz
λ = 0.9C...0.96

VSL LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1, 73614 Schorndorf
Electronic Converter for LED

5727 Q 

ECXe 600.753
Ref.-No. 187622
Made in China

SEC
Irated = 600mA
Uoutput = 30...40V...
Uout = 60V... Max
Prated = 24W
SELV

PRI
UN = 220...240V~
In = 150mA
fn = 50/60Hz
λ = 0.9C...0.97

VSL LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1, 73614 Schorndorf
Electronic Converter for LED

5727 Q 

ECXe 700.754
Ref.-No. 187623
Made in China

SEC
Irated = 700mA
Uoutput = 30...40V...
Uout = 60V... Max
Prated = 28W
SELV

PRI
UN = 220...240V~
In = 175mA
fn = 50/60Hz
λ = 0.9C...0.97

VSL LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1, 73614 Schorndorf
Electronic Converter for LED

5727 Q 

ECXe 800.755
Ref.-No. 187624
Made in China

SEC
Irated = 800mA
Uoutput = 30...40V...
Uout = 60V... Max
Prated = 32W
SELV

PRI
UN = 220...240V~
In = 190mA
fn = 50/60Hz
λ = 0.95...0.98

VSL LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1, 73614 Schorndorf
Electronic Converter for LED

5727 Q 

ECXe 900.756
Ref.-No. 187625
Made in China

SEC
Irated = 900mA
Uoutput = 30...40V...
Uout = 60V... Max
Prated = 36W
SELV

PRI
UN = 220...240V~
In = 210mA
fn = 50/60Hz
λ = 0.9C...0.98

VSL LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1, 73614 Schorndorf
Electronic Converter for LED

5727 Q 

ECXe 1050.757
Ref.-No. 187626
Made in China

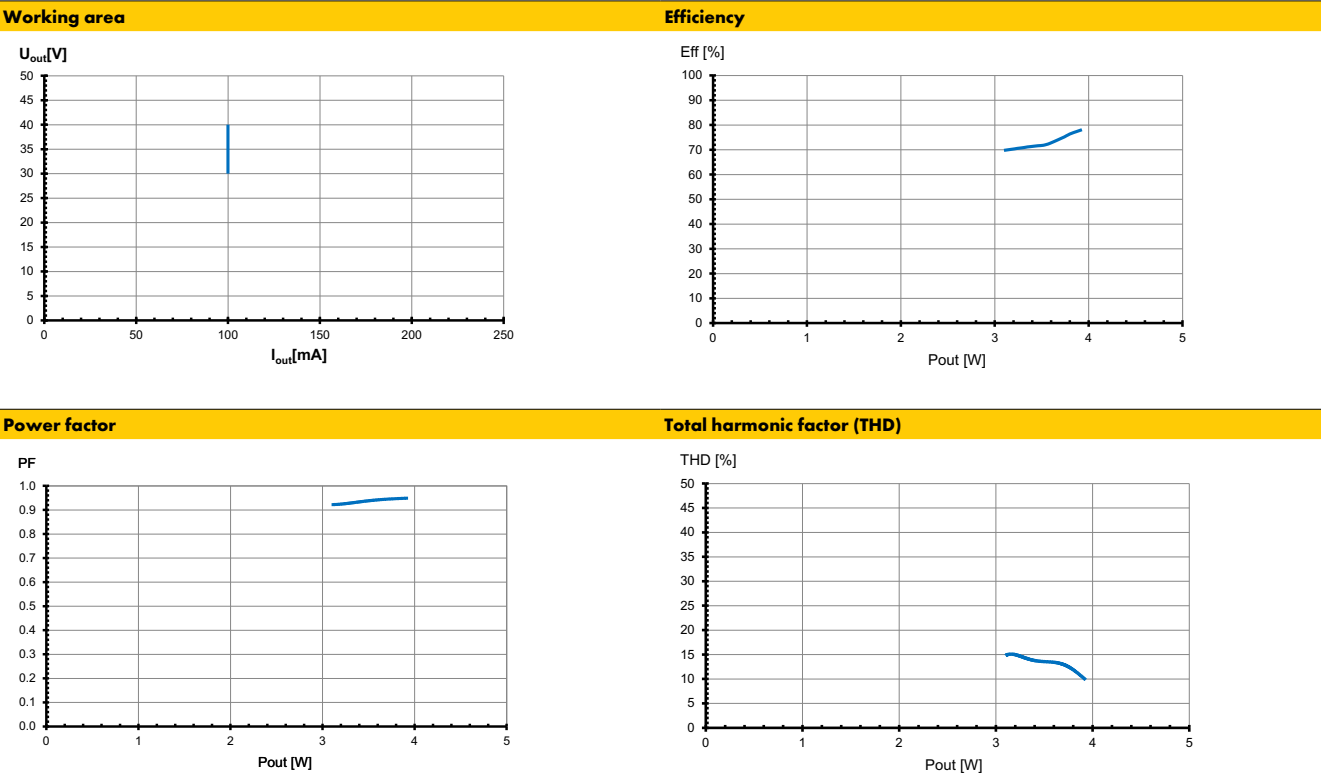
SEC
Irated = 1050mA
Uoutput = 30...40V...
Uout = 60V... Max
Prated = 42W
SELV

PRI
UN = 220...240V~
In = 240mA
fn = 50/60Hz
λ = 0.95...0.98

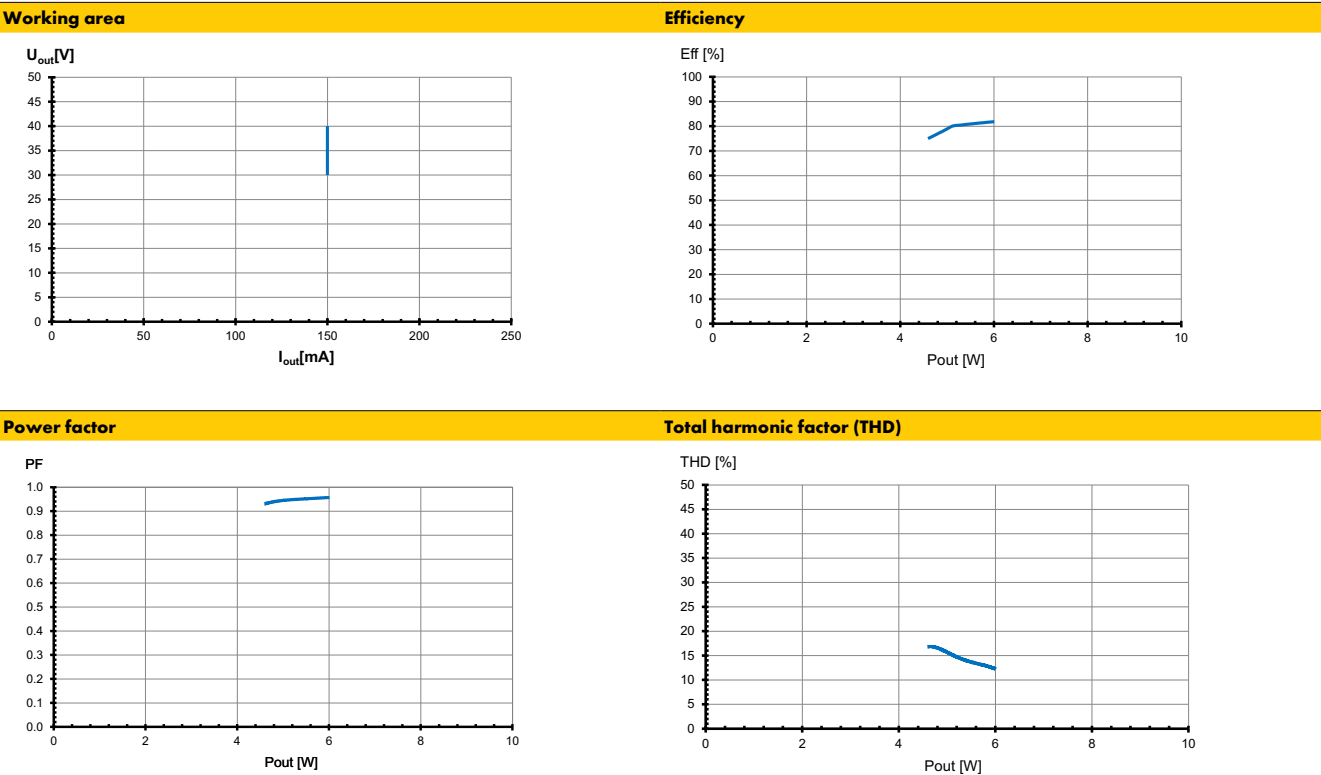
    

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

Typ. performance graphs for 187678 / Type ECXe 100.792

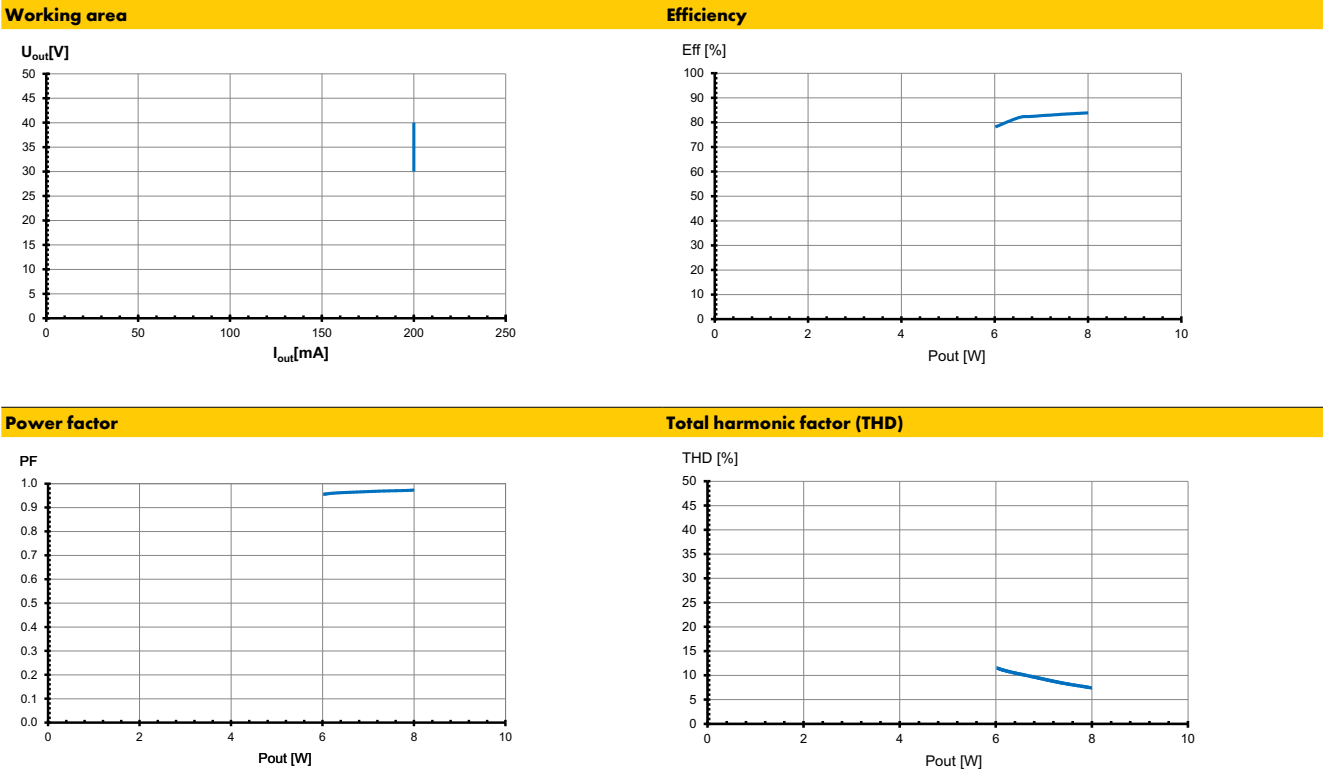


Typ. performance graphs for 187679 / Type ECXe 150.793

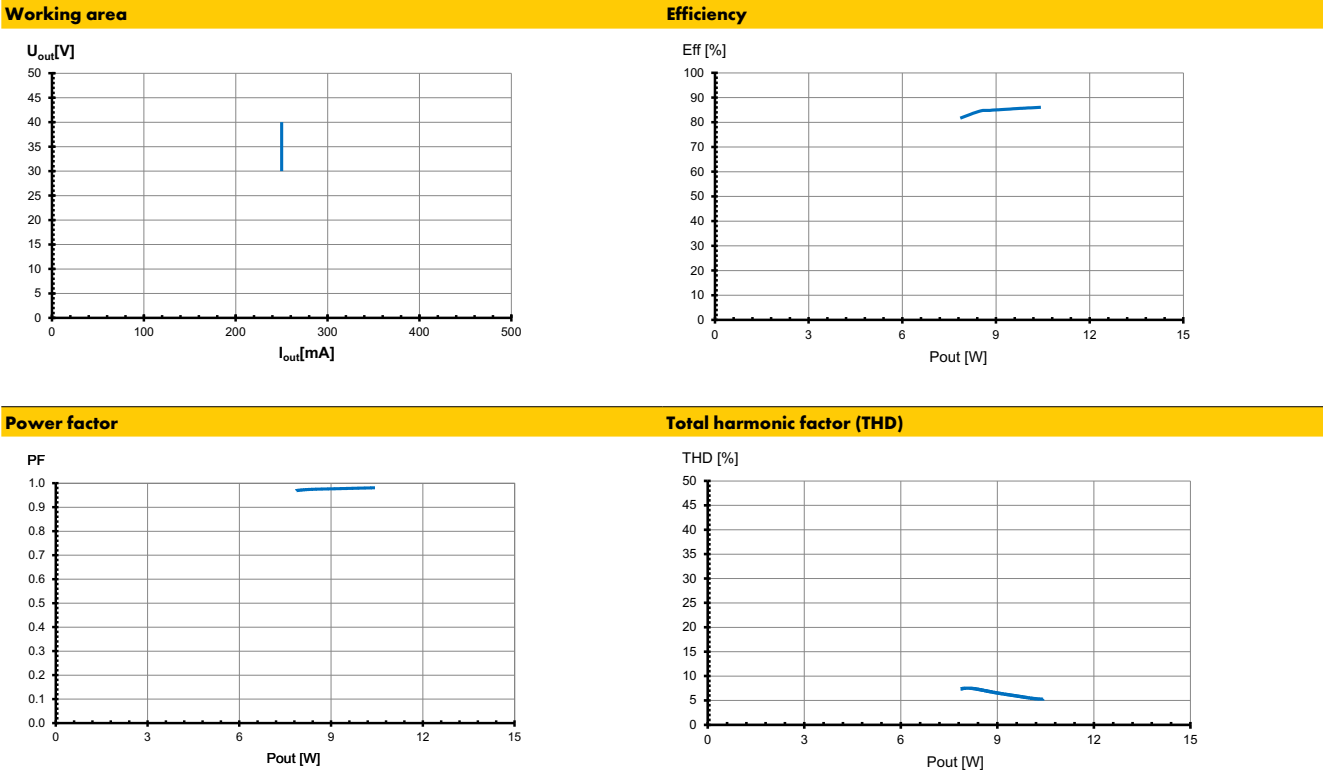


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Typ. performance graphs for 187680 / Type ECXe 200.794

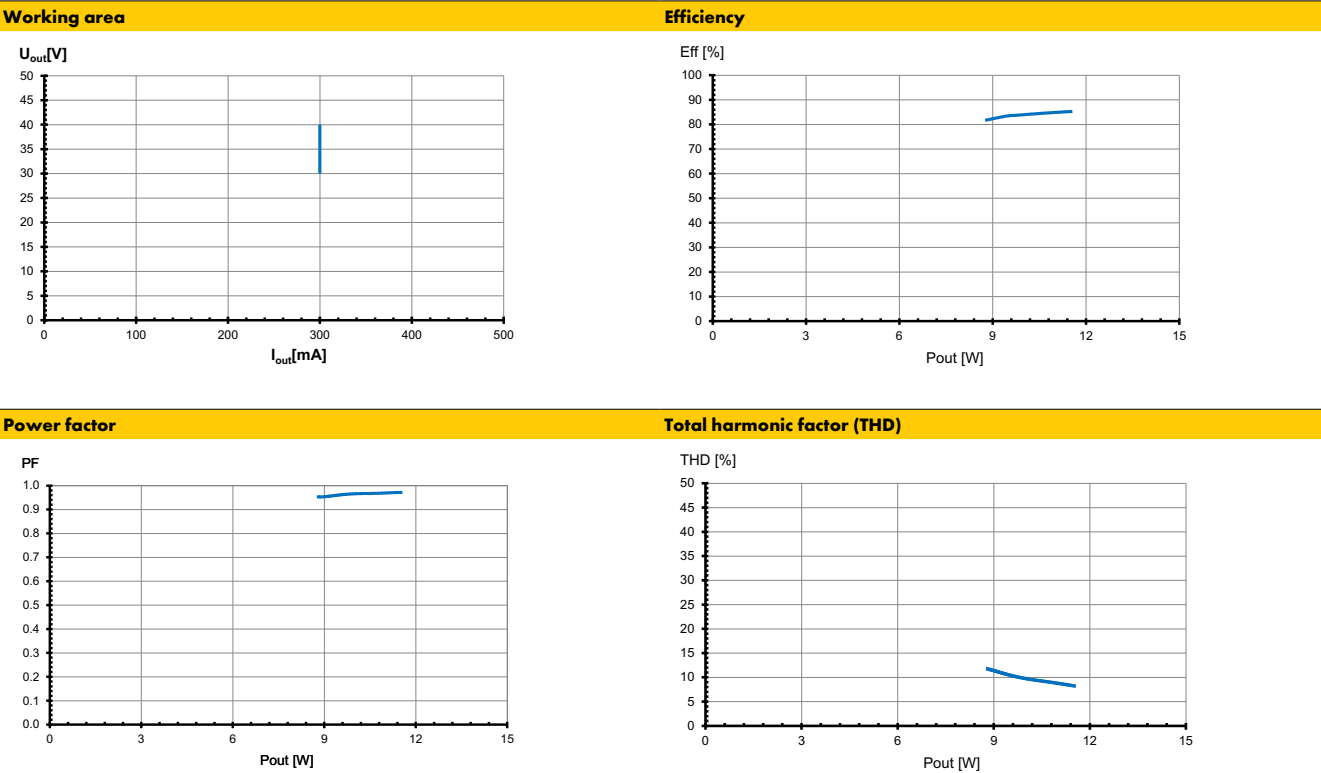


Typ. performance graphs for 187681 / Type ECXe 250.795

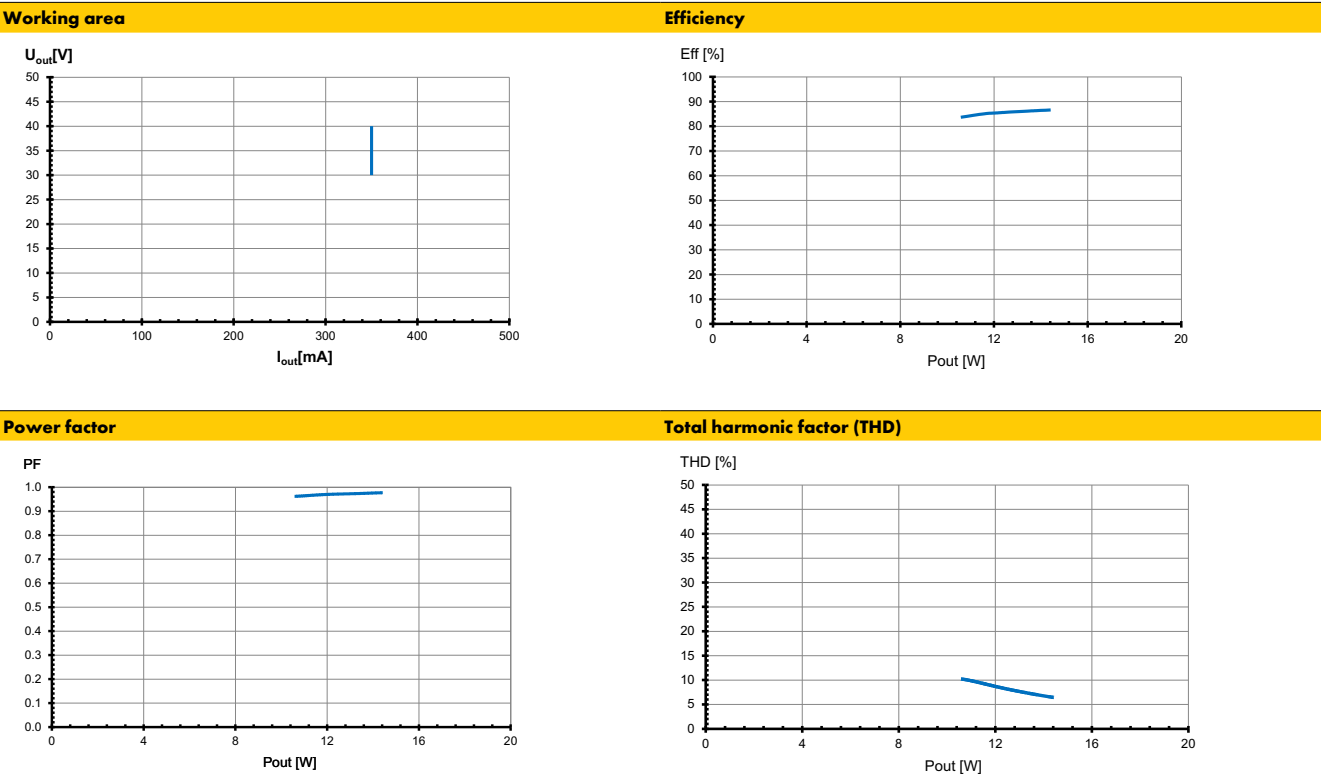


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Typ. performance graphs for 187682 / Type ECXe 300.796

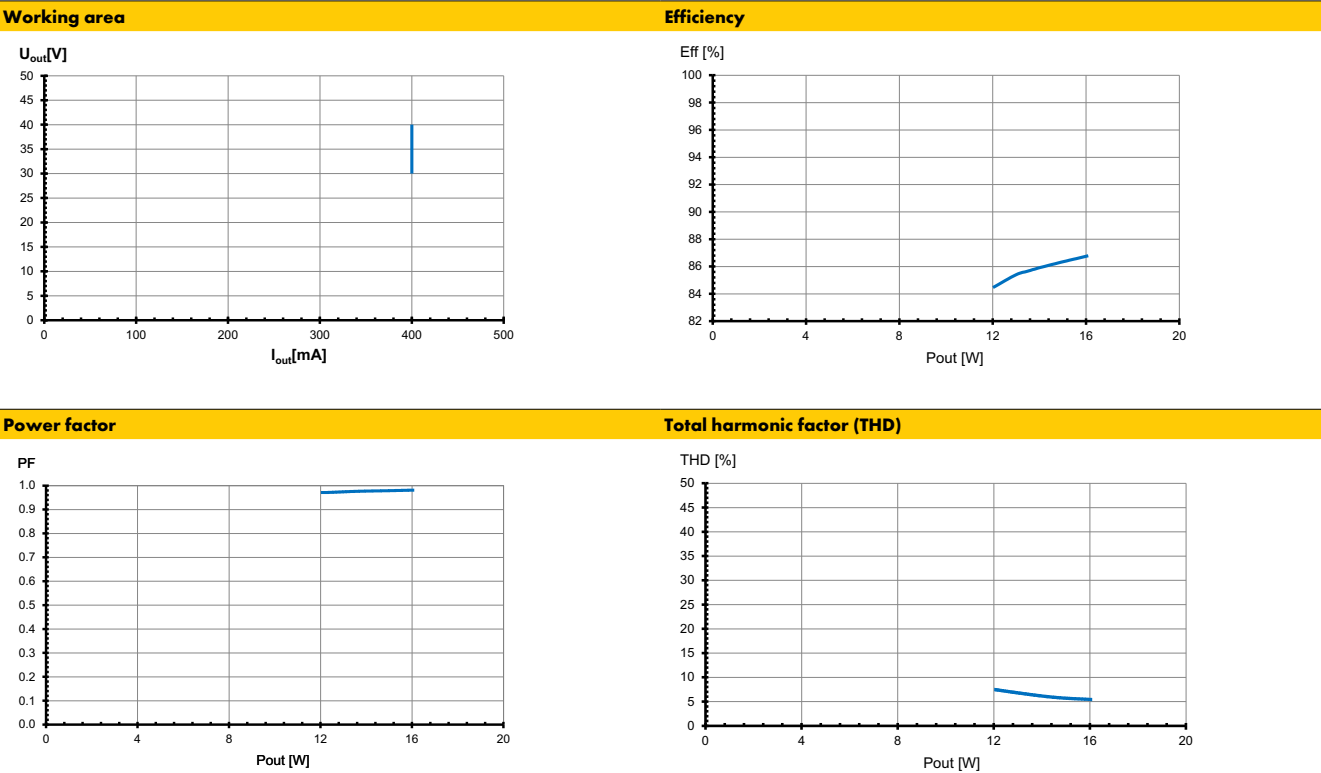


Typ. performance graphs for 187683 / Type ECXe 350.797

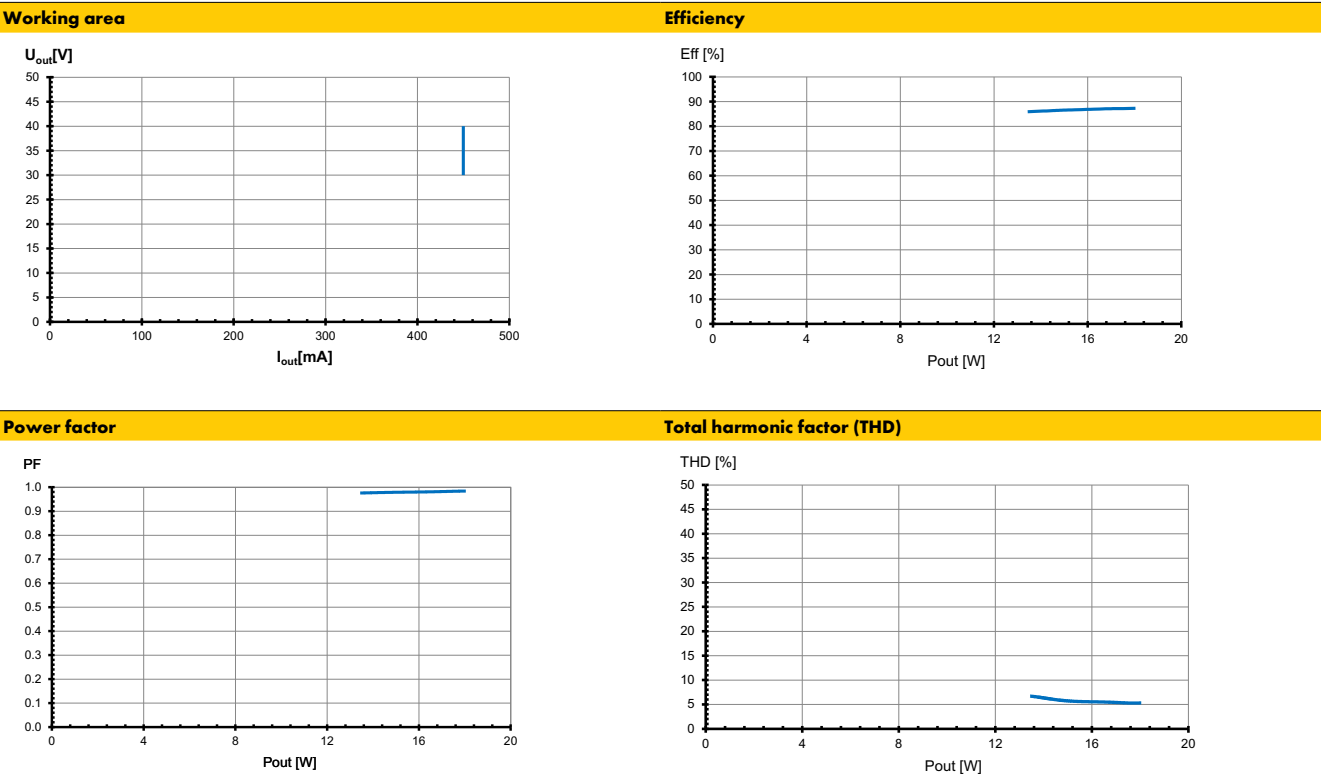


The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

Typ. performance graphs for 187684 / Type ECXe 400.798

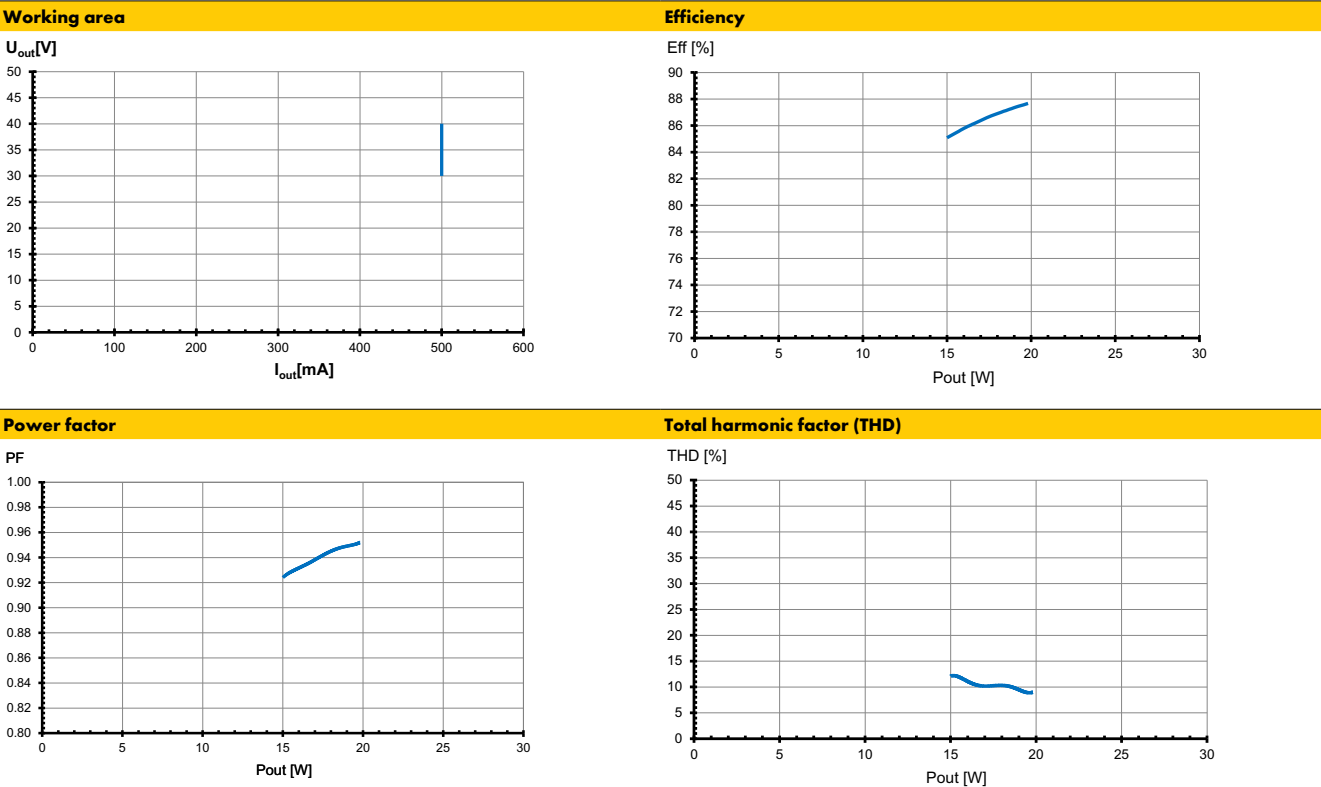


Typ. performance graphs for 187685 / Type ECXe 450.799

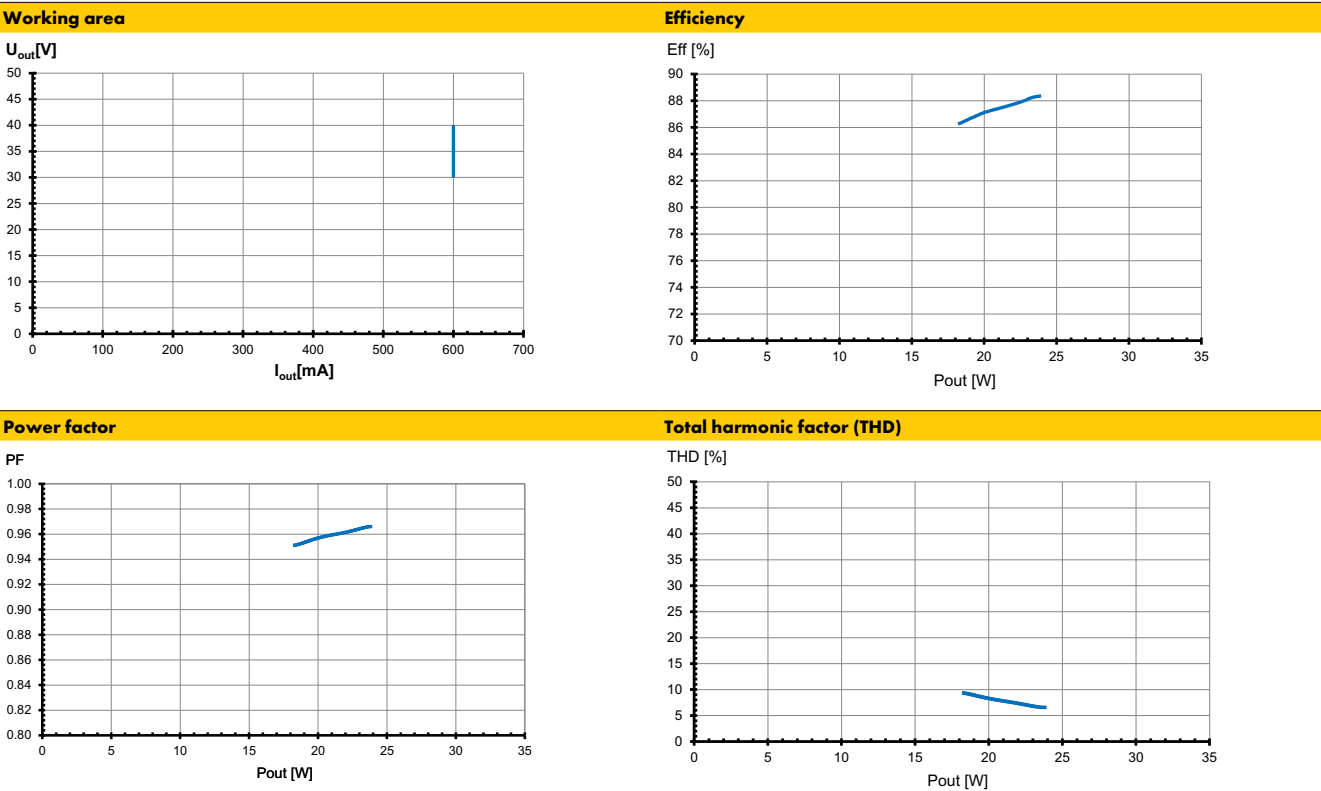


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Typ. performance graphs for 187621 / Type ECXe 500.752

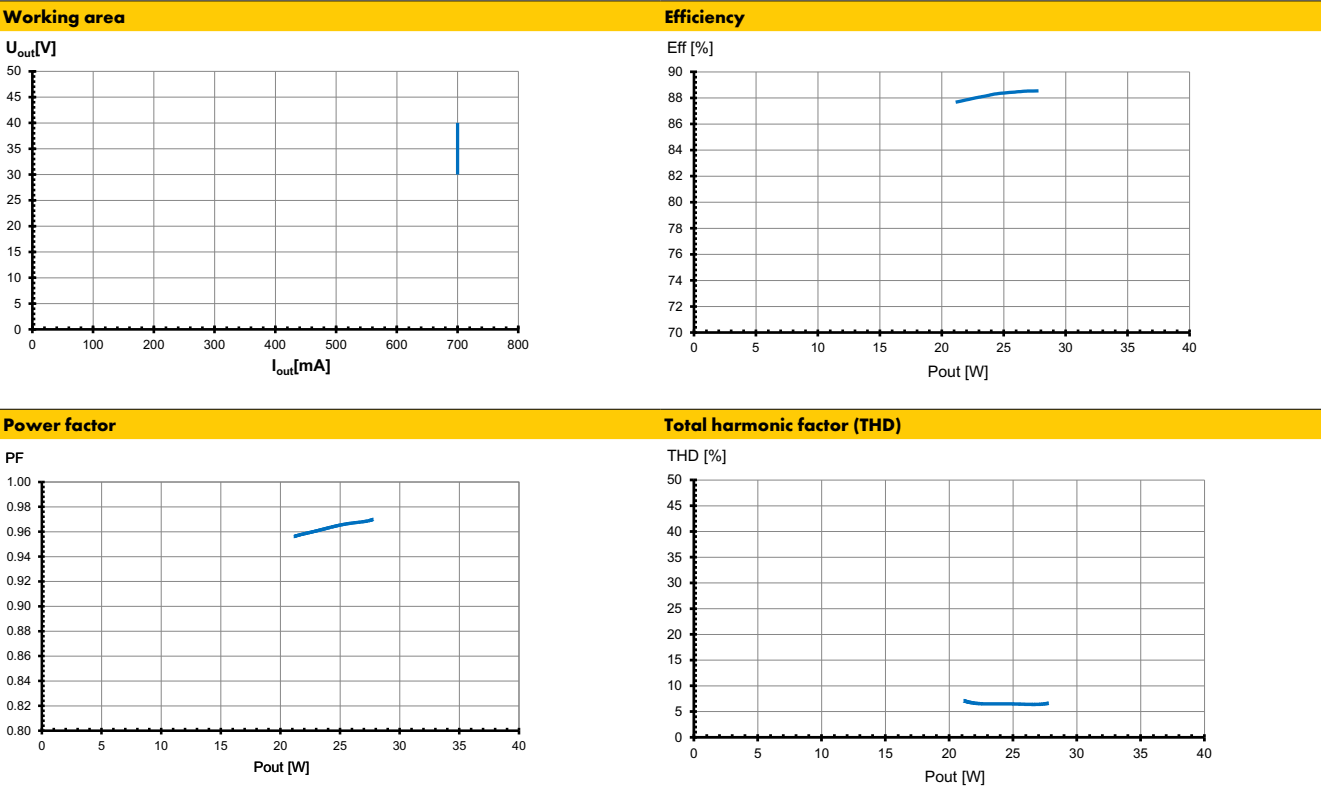


Typ. performance graphs for 187622 / Type ECXe 600.753

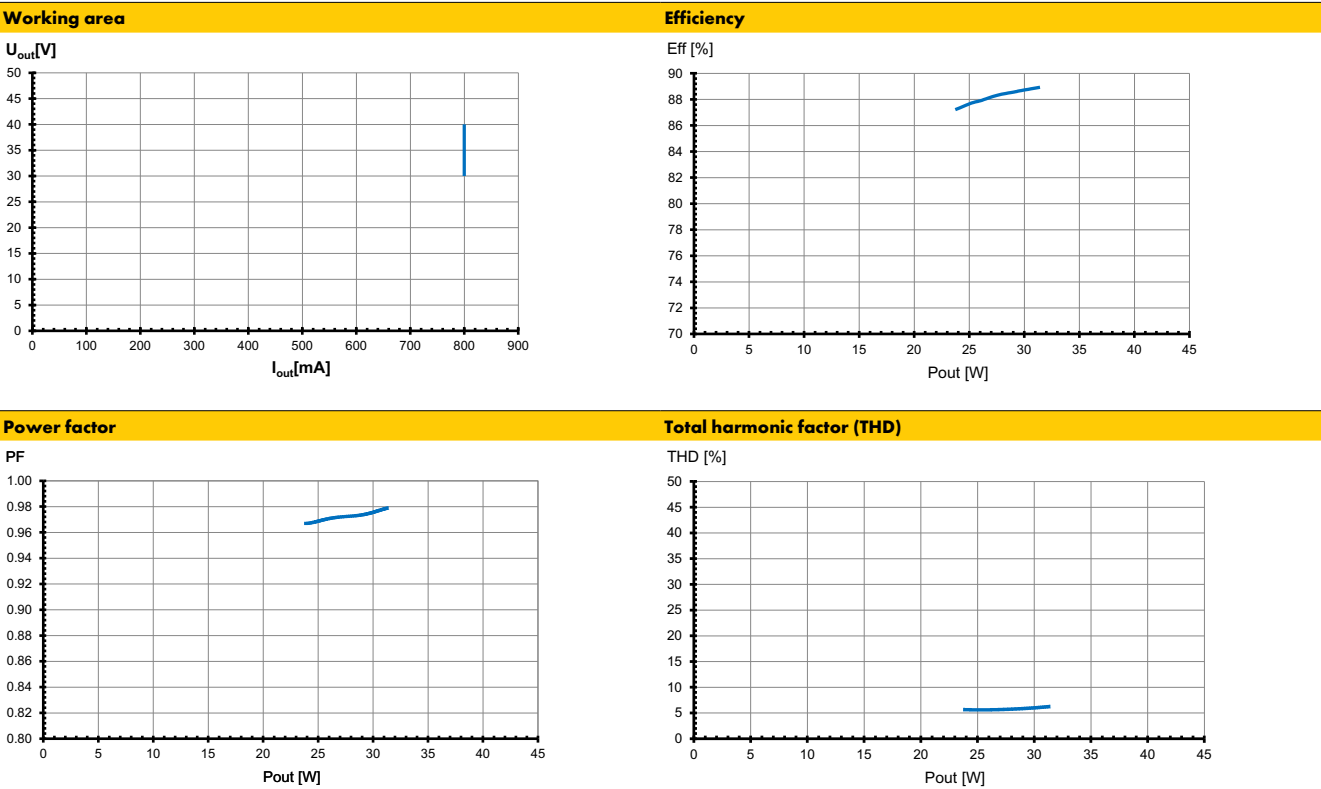


The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

Typ. performance graphs for 187623 / Type ECXe 700.754

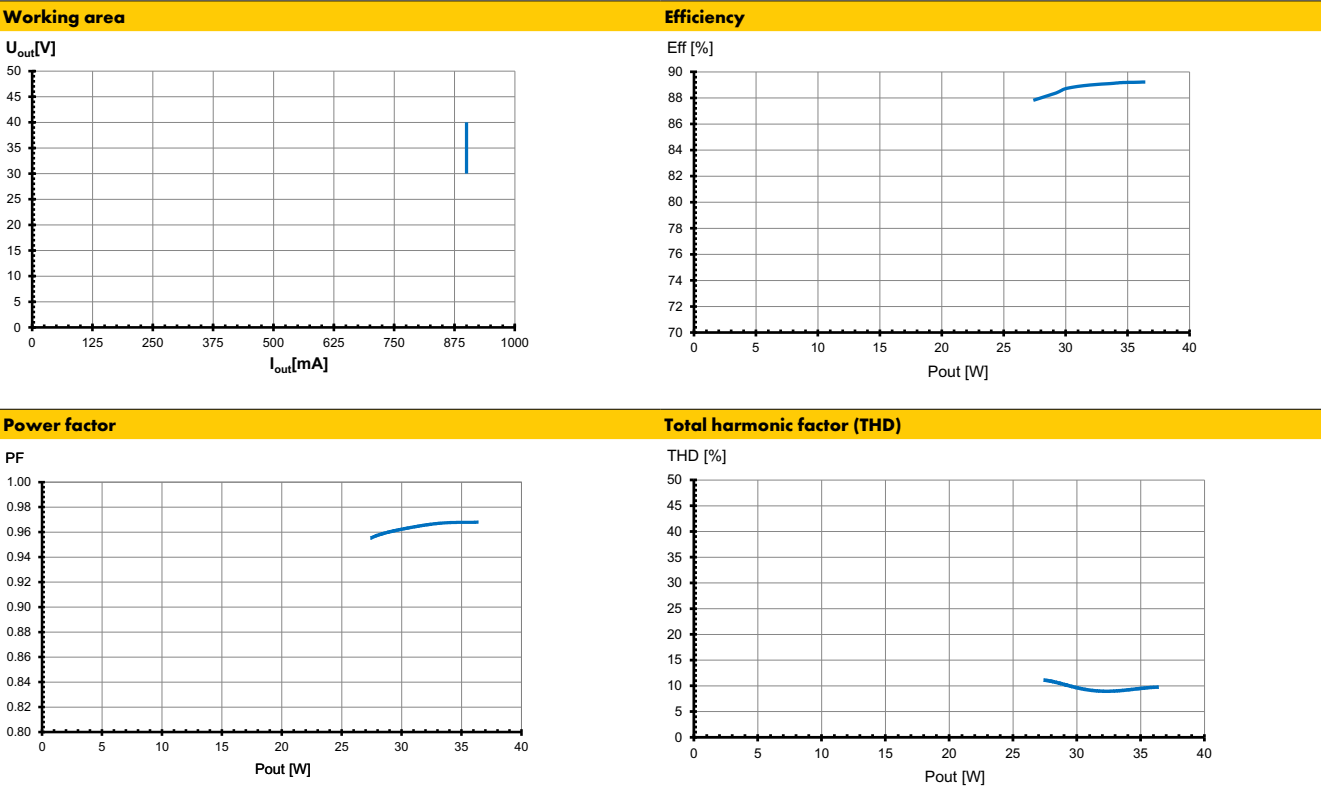


Typ. performance graphs for 187624 / Type ECXe 800.755

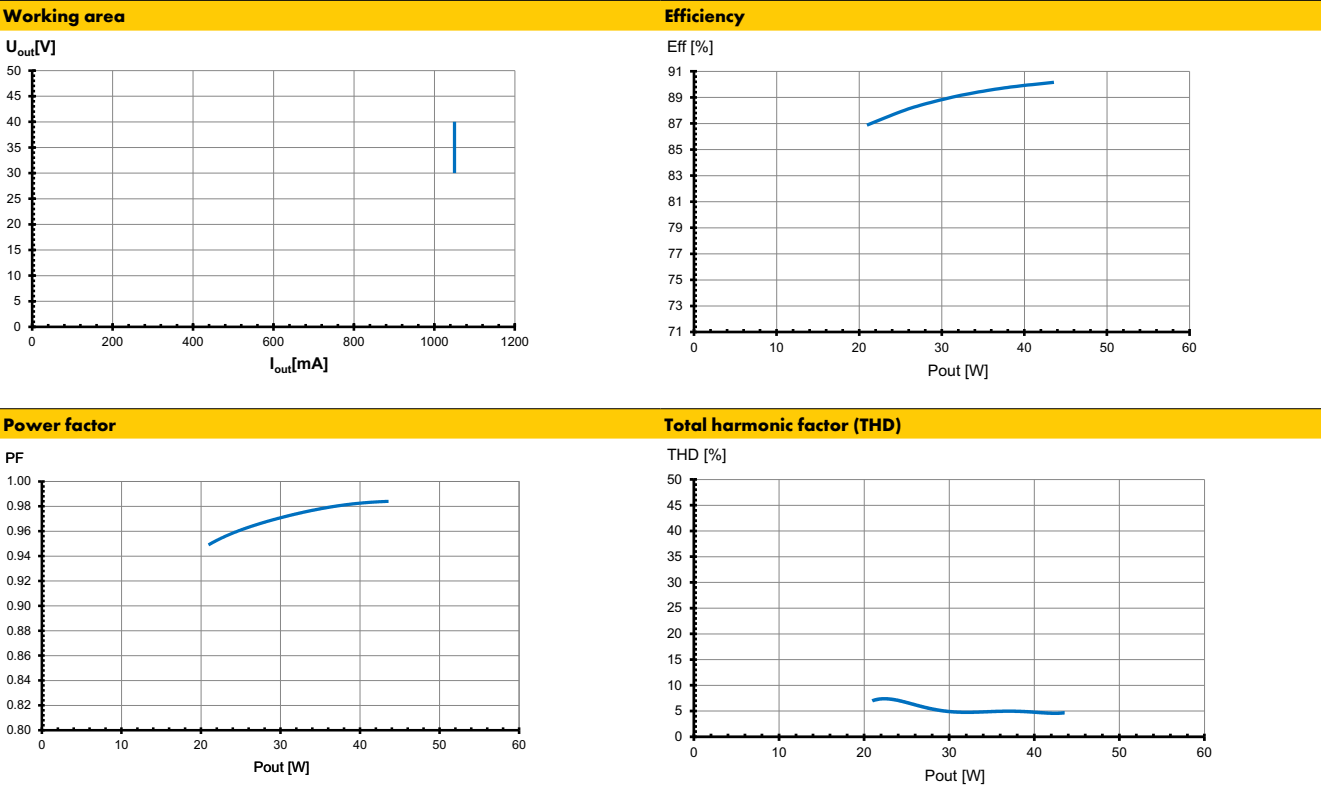


The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

Typ. performance graphs for 187625 / Type ECXe 900.756



Typ. performance graphs for 187626 / Type ECXe 1050.757



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- Transient mains peaks protection:

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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

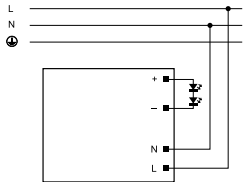
Mechanical mounting

- 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 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 primary: 0.75–1.5 mm², secondary: 0.3–1.0 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: 3 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 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
ECXe 100.792	187678	45	58	72	75	97	120
ECXe 150.793	187679	45	58	72	75	97	120
ECXe 200.794	187680	45	58	72	75	97	120
ECXe 250.795	187681	45	58	72	75	97	120
ECXe 300.796	187682	40	52	64	67	87	108
ECXe 350.797	187683	40	52	64	67	87	108
ECXe 400.798	187684	40	52	64	67	87	108
ECXe 450.799	187685	40	52	64	67	87	108
ECXe 500.752	187621	19	25	31	33	43	53
ECXe 600.753	187622	19	25	31	33	43	53
ECXe 700.754	187623	19	25	31	33	43	53
ECXe 800.755	187624	19	25	31	33	43	53
ECXe 900.756	187625	19	25	31	33	43	53
ECXe 1050.757	187626	13	17	21	22	29	35

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