CC LINEAR DIP SWITCH





EASYLINE DIP SWITCH L-LV

187547, 187548, 187549, 187550

Typical Applications

Built-in in linear luminaires for

- Office lighting
- Industry Lighting

EasyLine DIP switch L-LV

- SELECTABLE OUTPUT CURRENT VIA DIP SWITCH
- VERY LOW RIPPLE CURRENT: < 3%</p>
- ENEC APPROVED
- LONG SERVICE LIFE: UP TO 100,000 HRS.
- PRODUCT GUARANTEE: 5 YEARS



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EasyLine DIP switch L-LV

Product features

• Linear casing shape

Functions

• Selectable current output via DIP switch

Electrical features

- Mains voltage: 220–240 V ±10%
- Mains frequency: 50–60 Hz
- DC operation: 176–280 V
- Push-in terminals: 0.5–1.5 mm²
- Power factor at full load: 0.95
- Max. working voltage (U_{OUT}): 60 V
- Secondary side switching of LED modules is not allowed.

Safety features

- Protection against transient main peaks up to 2 kV (between L and N) and up to 2 kV (between L, N and PE)
- Electronic short-circuit protection
- Overload protection
- Protection against "no load" operation
- Degree of protection: IP20
- Protection class I

Packaging units

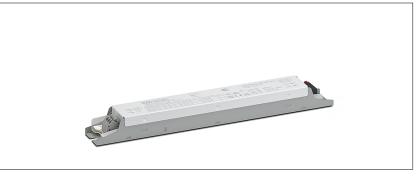
Ref. No.	Packaging unit						
	Pieces	Boxes	Weight				
	per box	per pallet	g				
187547	60	3000	118				
187548	60	3000	130				
187549	60	3000	139				
187550	60	2500	187				

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

Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
187547	M6	210	30	21
187548				
187549				
187550	M7	280	30	21

Drawings

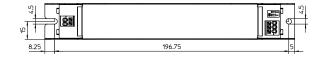




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Electrical characteristics

Max.	Туре	Ref. No.	Voltage	Mains	Inrush	Current	Voltage	THD	Efficiency	Ripple
output			50-60 Hz	current	current	output DC	output	at full load	at full load	100 Hz
W			V	mA	A / µs	mA (± 5%)	DC (V)	% (230 V)	% (230 V)	%
10	ECXe 350.722	187547	220-240	95-88	13.6 / 118	200	15-51	<8	>86.5	<3
13						250				
15						300				
18						350				
26	ECXe 650.723	187548	220-240	17-158	17.4 / 154	500	15-51	<4	>91	<]
28						550				
31						600				
33						650				
36	ECXe 1050.724	187549	220-240	203-197	16.8 / 162	700	15-51	<4	>91	<1
38						750				
41						800				
41						850				
41						900				
42						950				
40						1000				
40						1050				
59	ECXe 1500.725	187550	220-240	312-284	36.7 / 188	1150	15-51	<4	>91.5	<1
60						1200				
60						1250				
60						1300				
61						1350				
59						1400				
61						1450				
60						1500				

Maximum ratings

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

Ref. No.	Ambient temper	ature	Operation humidity		Storage temperature		Storage humidity		Max. operation	Degree of
	range		range		range		range		temperature at t _c point	protection
	°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.	°C	
187547	-20	+60	20	90	-25	+60	20	90	+80	IP20
187548									+85	IP20
187549					-25	+80			+80	IP20
187550									+90	IP20

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LED Drivers – EasyLine DIP switch L-LV

DIP switch settings

Pin 1	Pin 2	Operating c 187547	urrent (mA) 187548
OFF	OFF	200	500
ON	OFF	250	550
OFF	ON	300	600
ON	ON	350	650

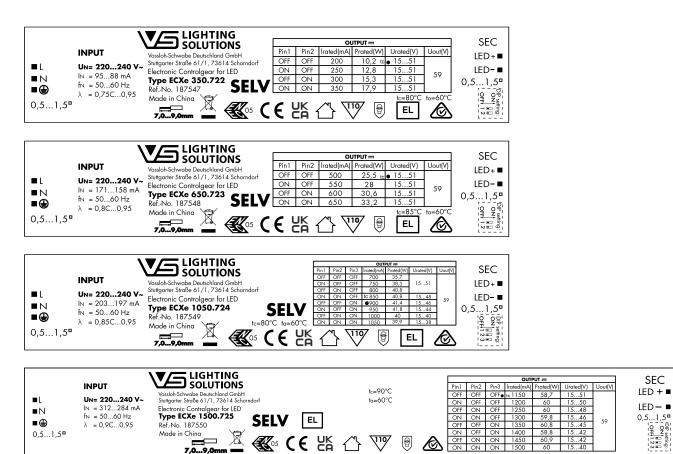
Pin 1	Pin 2	Pin 3	Operating current (mA)			
			187549	187550		
OFF	OFF	OFF	700	1150		
ON	OFF	OFF	750	1200		
OFF	ON	OFF	800	1250		
ON	ON	OFF	850	1300		
OFF	OFF	ON	900	1350		
ON	OFF	ON	950	1400		
OFF	ON	ON	1000	1450		
ON	ON	ON	1050	1500		

Operating Life

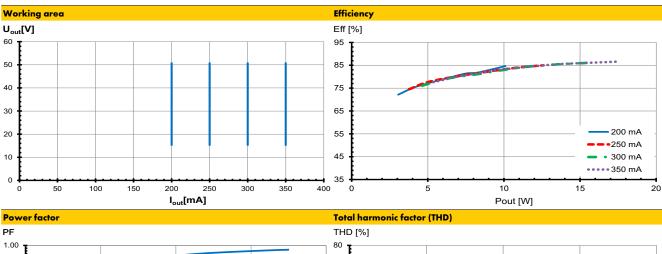
at operation temperatures at t_c point

Operation	Ref. No.								
current	187547		187548		187549		187550		
All	80°C	70°C	85°C	75°C	80°C	70°C	90°C	80°C	
hrs.	50,000	100,000	50,000	100,000	50,000	100,000	50,000	100,000	

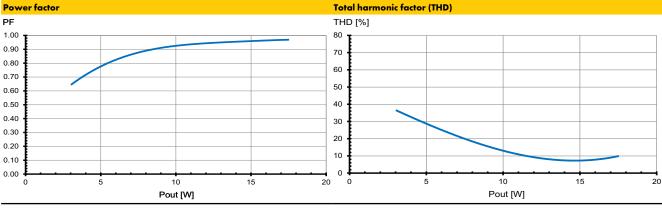
Product labels



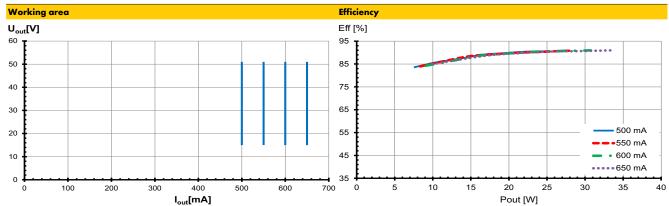
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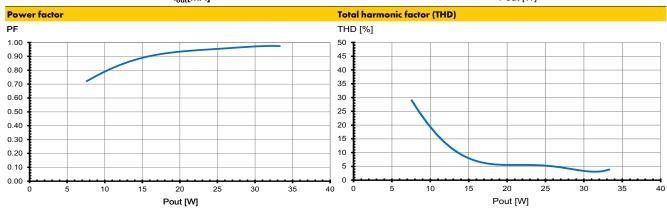


Typ. performance graphs for 187547 / Type ECXe 350.722

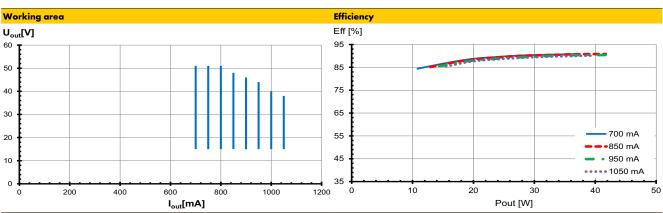


Typ. performance graphs for 187548 / Type ECXe 650.723

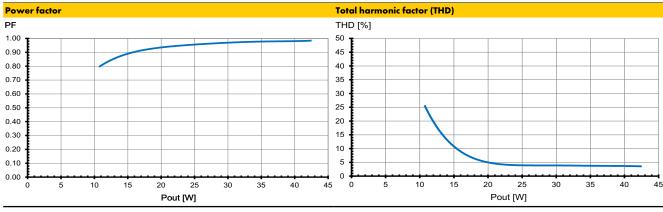




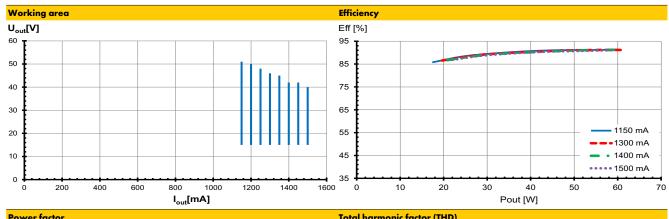
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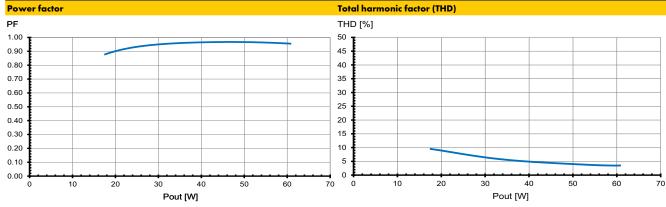


Typ. performance graphs for 187549 / Type ECXe 1050.724



Typ. performance graphs for 187550 / Type ECXe 1500.725





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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 2 kVSurges between L/N–PE: up to 2 kV $\,$ • Short-circuit protection: The control gears are protected against permanent short-circuit with automatic restart function. • Overload protection: The control gears only work in range of rated output power and voltage problemfree. 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, 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

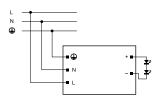
Mechanical mounting

Mounting position:	Built-in: Any position inside a luminaire is allowed
	Independent application: Drivers are not
	allowed to use for independent applications
 Mounting location: 	LED drivers are designed for integration into
	luminaires or comparable devices.
	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

Electrical installation

 Connection 	
terminals:	Push-in terminals for rigid conductors with
	a section of 0.5–1.5 mm ²
 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.
 Polarity: 	Please ensure the correct polarity of the leads
	prior to commissioning. Reversed polarity can
	destroy the modules.
 Secondary load: 	The sum of forward voltages of LED loads
	has to be within the tolerances which are
	mentioned in the table "Electrical Charac-
	teristics" in this data sheet.





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).

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		
ECXe 350.722	187547	52	68	84	87	114	140	
ECXe 650.723	187548	31	40	49	51	67	82	
ECXe 1050.724	187549	30	39	48	44	58	71	
ECXe 1500.725	187550	11	15	19	19	25	31	

 To limit capacitive inrush currents the current carrying capacity of each circuit breaker (fuse) can be increased with the help of our ESB (Ref. No.: 149820, 149821, 149822) inrush current limiters.

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