

VS PRODUCT NEWS

Lighting Component Systems

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EasyLine Simple Fix Mini Slim

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: 0.5–1.5 mm²
- Power factor at full load: 0.9
- Open circuit voltage (U_{max.}): 60 V
- Secondary side switching of LED modules is not allowed.

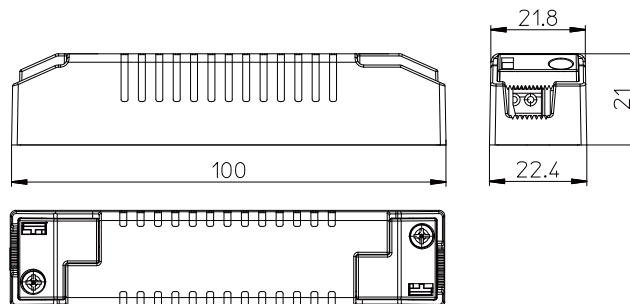


Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA ($\pm 10\%$)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
7	ECXe 350.698	187494	220–240	43–40	7 / 95	350	8–20	10	77	< 5
7.8	ECXe 600.697	187493	220–240	46–43	8 / 103	600	6–13	10	79	< 5
8.4	ECXe 200.696	187492	220–240	49–45	7 / 121	200	30–42	10	83	< 5
9.1	ECXe 700.695	187491	220–240	54–49	7 / 89	700	6–13	9	79	< 5
10.5	ECXe 250.694	187490	220–240	60–55	8 / 135	250	30–42	8	83	< 5
10	ECXe 400.784	187670	220–240	55–51	6.7 / 206	400	2–25	11	85	< 5
13	ECXe 500.785	187671	220–240	55–62	6.7 / 206	500	2–25	10	85	< 5

Dimensions

- Casing: K108
- Length: 100 mm
- Width: 22 mm
- Height: 21 mm



EasyLine Simple Fix Mini Slim 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"
- Max. operation voltage without load (U)_{max.}: 60 V
- Secondary side switching of LED modules is not allowed.



Electrical characteristics

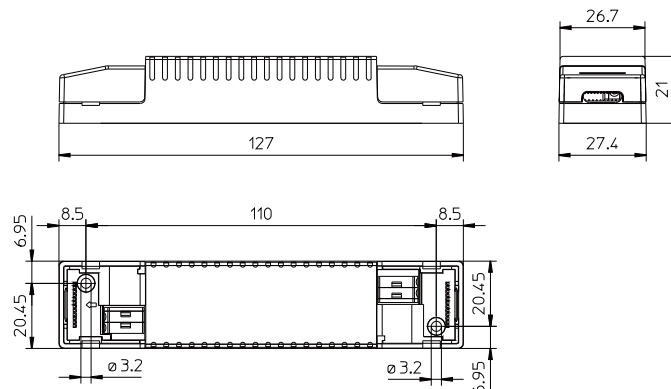
Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μs	Current output DC mA (± 5 %)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
9	ECXe 700.744	187601	100–240	98/45	14.4/198	700	6–13	15	87	<3
15	ECXe 350.745	187602	100–240	155/70	17.8/182	350	16–42	12	88	<3
21	ECXe 500.746	187603	100–240	225/100	21.4/218	500	16–42	12	88	<3
5	ECXe 350.747	187604	100–240	51/25	12.6/174	350	6–13	12	83	<3

Dimensions

Ref. No.	Casing	Length a (mm)	Width b (mm)	Height c (mm)
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EasyLine Simple Fix Mini Slim 100 V

All types	K120	127	27.4	21
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EasyLine DIP switch C Mini

Product features

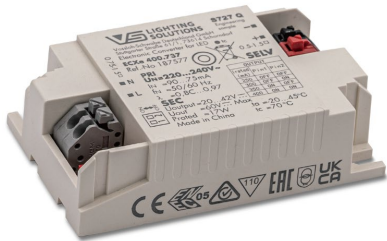
- Very compact casing shape (Mini)

Functions

- Selectable current output by DIP switch

Electrical features

- Mains voltage: 220–240 V $\pm 10\%$
- Mains frequency: 50–60 Hz
- Push-in terminals:
rigid 0.5–1.5 mm²
strand 0.75–1.5 mm²
- Power factor at full load: > 0.90
- Open circuit voltage (U_{max.}): 60 V
- Secondary side switching of LED modules is not allowed.

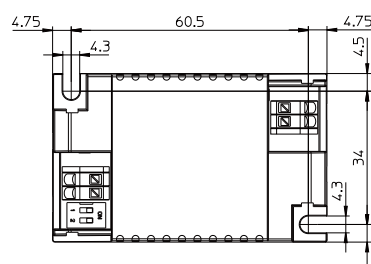
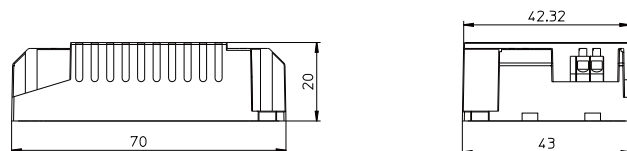


Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA ($\pm 5\%$; for 14W $\pm 7,5\%$)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
4.5	ECXe 225.734	187574	220–240	28–23	12.1 / 162	150/175/200/225	6-20	< 10	81	< 3
8	ECXe 400.735	187575	220–240	50–37	11.1 / 158	250/300/350/400	6-20	< 10	82	< 3
9.5	ECXe 225.736	187576	220–240	65–45	11.6 / 160	150/175/200/225	20-42	< 10	85	< 3
17	ECXe 400.737	187577	220–240	90–75	14.2 / 166	250/300/350/400	20-42	< 10	87	< 3

Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
187574, 187575, 187576, 187577	K115	70	43	20



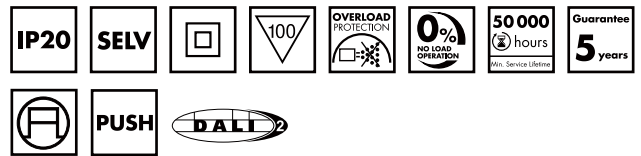
ComfortLine Dip Switch Mini Slim DALI2

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: 0.5–1.5 mm²
- Power factor at full load: 0.9
- Open circuit voltage (U_{max.}): 60 V
- Secondary side switching of LED modules is not allowed.

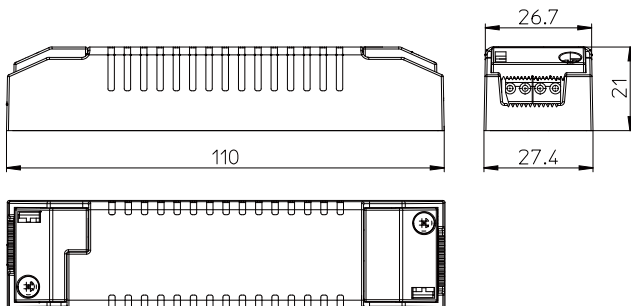


Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA ($\pm 10\%$)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
9.1	ECXd 700.700	187496	220–240	53–49	7 / 196	350/500/600/700	6–13	7	81	< 5
10.5	ECXd 250.699	187495	220–240	57–53	7 / 198	100/150/200/250	30–42	7	87	< 5

Dimensions

- Casing shape: K109
- Length: 110 mm
- Width: 27.4 mm
- Height: 21 mm



EasyLine DIP switch C Gen.2

Product features

- Compact casing shape

Functions

- Selectable current output by dip-switch

Electrical features

- Mains voltage: 220–240 V $\pm 10\%$
- Mains frequency: 50–60 Hz
- Push-in terminals:
rigid 0.5–1.5 mm²
strand 0.75–1.5 mm²
- Power factor at full load: > 0.95
- Open circuit voltage (U_{max.}): 60 V
- Secondary side switching of LED modules is not allowed.



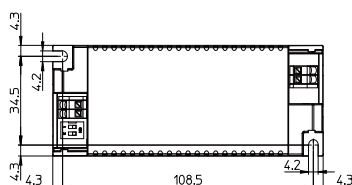
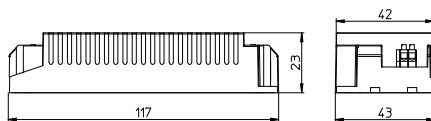
Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA ($\pm 5\%$; for 14W $\pm 7.5\%$)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
14	ECXe 700.666	187419	220–240	80-65	15 / 244	350/500/550/700	6-20	14	83	<5
17	ECXe 400.667	187420	220–240	95-80	15 / 246	250/300/350/400	20-42	14	87	<5
25	ECXe 600.668	187421	220–240	140-120	15 / 250	450/500/550/600	20-42	9	88	<5
33	ECXe 800.669	187422	220–240	180-160	20 / 266	650/700/750/800	20-42	8	89	<5
40	ECXe 800.670	187423	220-240	215-180	23 / 260	500/600/700/800	30-50	8	89	<5
44	ECXe 1050.671	187424	220-240	240-210	18 / 275	900/950/1000/1050	20-42	9	89	<5
59	ECXe 1400.692	187474	220-240	300-250	29 / 300	1100/1200/1300/1400	20-42	15	92	<5

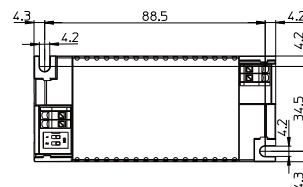
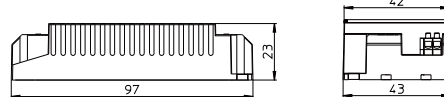
Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
187419, 187420, 187421, 187422, 187423, 187424	K107	97	43	23
187474	K110	117	42	23

K110



K107



EasyLine DIP switch UT-155 GEN. 4

Product Feature

- Adapter with integrated LED driver electronics for common 3-phase track systems
- Available in three different casing colours: white (RAL 9003), black (RAL 9005) and grey (RAL 7040)

Functions

- Selectable current output by DIP switches
- The output current can be freely adjusted between 450 mA and 1050 mA

Electrical features

- Mains voltage: 220–240 V \pm 10%
- Mains frequency: 50–60 Hz
- Power factor at full load: > 0.95
- Open circuit voltage (U_{max.}): 55 V
- Secondary side switching of LED modules is not allowed.
- SVM: < 0.4
- PstLM: < 1

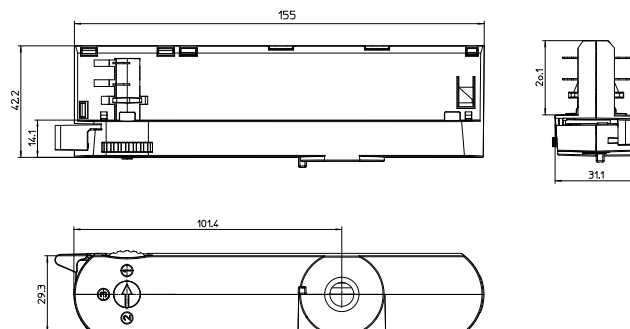


Electrical characteristics

Max. output W	Type	Ref. No.	Casing colour	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA (\pm 5%)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
25	ECXe 600.718	187535	white (RAL 9003)	220–240	126–115	19 / 118	450/500/ 550/600	24–42	4	92	5
		187536	black (RAL 9005)								
		187537	grey (RAL 7040)								
34	ECXe 800.719	187538	white (RAL 9003)	220–240	171–155	21 / 134	650/700/ 750/800	24–42	5	92	5
		187539	black (RAL 9005)								
		187540	grey (RAL 7040)								
42	ECXe 1050.720	187541	white (RAL 9003)	220–240	213–192	22 / 144	900/950/ 1000/1050	24–42	5	91	5
		187542	black (RAL 9005)					24–40			
		187543	grey (RAL 7040)					(@1050mA)			

Dimensions

Type	Casing	Length mm	Width mm	Height (mm) visible
all types	UT-155	155	31,1	42,2 14,1



EasyLine DIP switch UT-200 120–277 V

Product features

- Adapter with integrated LED driver electronics for common 3-phase track systems
- Available in three different casing colours: white (RAL 9003), black (RAL 9005) and grey (RAL 7040).

Functions

- Selectable current output by DIP switches
- The output current can be freely adjusted between 200 mA and 1050 mA

Electrical features

- Mains voltage: 120–277 V ±10%
- Mains frequency: 50–60 Hz
- Power factor at full load: > 0.95
- Open circuit voltage (U_{max.}): 60 V
- Secondary side switching of LED modules is not allowed.
- SVM: < 0.4
- PstLM: < 1



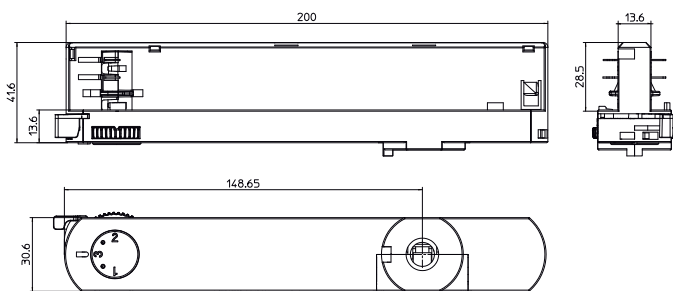
Electrical characteristics

Max. output W	Type	Ref. No.	Casing colour	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA (\pm 7%)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
42	ECXe 1050.656	187396	white (RAL 9003)	120–277	413–178	17 / 172	200–1050	see table DIP settings	4	85	5
		187397	black (RAL 9005)								
		187398	grey (RAL 7040)								

Dimensions

Type	Casing	Length mm	Width mm	Height (mm) visible
ECXe 1050.656	UT-200	200	30.6	41.6 13.6

UT-200



ECXe 1050.656								
Pin	1	2	3	4	Power W	Current mA	Voltage V	Factory settings (mA)
OFF	OFF	OFF	OFF	OFF	8.4	200	24–42	1050
ON	OFF	OFF	OFF	OFF	10.5	250		
OFF	ON	OFF	OFF	OFF	12.6	300		
ON	ON	OFF	OFF	OFF	14.7	350		
OFF	OFF	ON	OFF	OFF	16.8	400		
ON	OFF	ON	OFF	OFF	21.0	500		
OFF	ON	ON	OFF	OFF	23.1	550		
ON	ON	ON	OFF	OFF	25.2	600		
OFF	OFF	OFF	ON	OFF	27.3	650		
ON	OFF	OFF	ON	OFF	29.4	700		
OFF	ON	OFF	ON	OFF	33.6	800		
ON	ON	OFF	ON	OFF	35.7	850		
OFF	OFF	ON	ON	OFF	37.8	900		
ON	OFF	ON	ON	OFF	39.9	950		
OFF	ON	ON	ON	OFF	42.0	1000		
ON	ON	ON	ON	OFF	42.0	1050		

ComfortLine Dip switch UT-212/250 DALI2

Product features

- Adapter with integrated LED driver electronics for DALI-compatible track systems
- Available in three different casing colours: white, black and grey

Functions

- Selectable current output by DIP switches
- The output current can be freely adjusted between 120 mA and 1050 mA (dependent of type)

Electrical features

- Mains voltage: 220–240 V $\pm 10\%$
- Mains frequency: 50–60 Hz
- Push-in terminals: 0.5–1.5 mm²
- Power factor at full load: > 0.95
- Open circuit voltage (U_{max.}): 57 V
- Secondary side switching of LED modules is not allowed.
- SVM: < 0.4
- PstLM: < 1

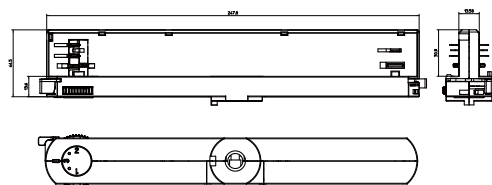
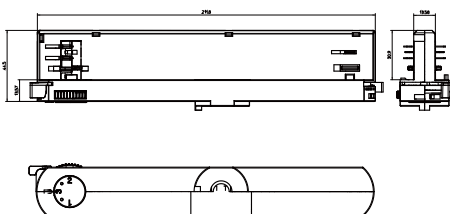


Electrical characteristics

Max. output W	Type	Ref. No.	Casing colour	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA ($\pm 5\%$)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
15	ECXd 350.647	187369	white	220–240	84–790	10 / 80	120–350	9–42	8	83	1
		187370	black								
		187371	grey								
29	ECXd 700.648	187372	white	220–240	161–149	18 / 104	350–700	9–42	9	85	1
		187373	black								
		187374	grey								
40	ECXd 1050.649	187375	white	220–240	208–191	15 / 100	700–1050	9–42 (38.5 V)	9	86	1
		187376	black								
		187377	grey								

Dimensions

Typ	Gehäuse	Length mm	Width mm	Height (mm) visible
ECXd 350.647	UT-212	211.8	30.6	44.5 13.6
ECXd 700.648	UT-250	247.8	30.6	45.5 13.6
ECXd 1050.649	UT-250	247.8	30.6	45.5 13.6



ComfortLine Dip switch C DALI2-Basic

Product features

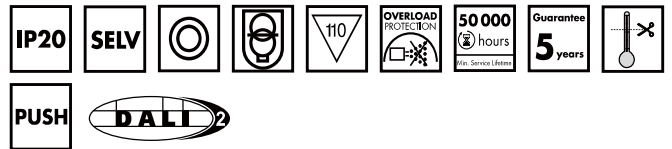
- Compact casing shape

Functions

- Selectable current output by dip-switch

Electrical features

- Mains voltage: 220–240 V $\pm 10\%$
- Mains frequency: 50–60 Hz
- Push-in terminals:
rigid 0.5–1.5 mm²
strand 0.75–1.5 mm²
- Power factor at full load: > 0.95
- Open circuit voltage (U_{max.}): 60 V
- Secondary side switching of LED modules is not allowed.



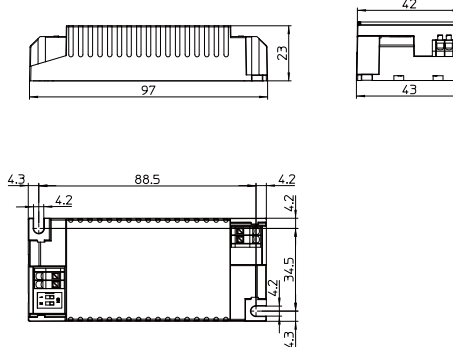
Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA ($\pm 5\%$; for 14W $\pm 7,5\%$)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
14	ECXd 700.674	187439	220–240	86–65	14/254	350/500/550/700	6–20	15	84	<5
17	ECXd 400.675	187440	220–240	100–75	15/234	250/300/350/400	20–42	13	87	<5
25	ECXd 600.676	187441	220–240	140–110	16/238	450/500/550/600	20–42	15	89	<5
33	ECXd 800.677	187442	220–240	185–165	24/240	650/700/750/800	20–42	11	89	<5
40	ECXd 800.693	187475	220–240	215–180	24/240	500/600/700/800	30–50	11	89	<5
44	ECXd 1050.678	187443	220–240	240–200	24/240	900/950/1000/1050	20–42	10	89	<5

Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
ALL	K107	97	43	23

K107



ComfortLine DIP switch C DALI2-MemoryData

Product features

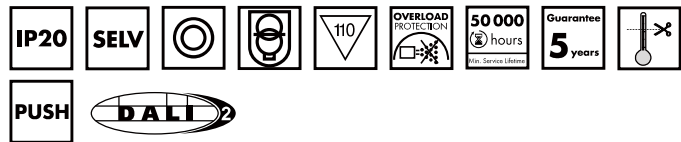
- Compact casing shape

Functions

- Selectable current output by dip-switch
- Suitable for central battery system for emergency lighting acc. to EN 50172

Electrical features

- Mains voltage: 220–240 V $\pm 10\%$
- Mains frequency: 50–60 Hz, 0 Hz
- DC Operation: 176–276 V (range of application)
- Push-in terminals:
rigid 0.5–1.5 mm²
strand 0.75–1.5 mm²
- Power factor at full load: > 0,95
- Open circuit voltage (U_{max.}): 60 V
- Secondary side switching of LED modules is not allowed.
- DIMMABLE: DALI (ED.2) MEMORY DATA Specification (PARTS 251/252/253)



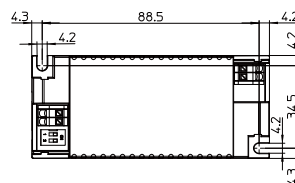
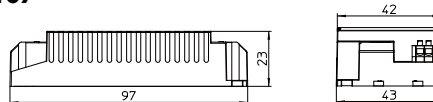
Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA ($\pm 5\%$; for 1.4W $\pm 7,5\%$)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
30	ECXd 700.679	187444	220–240	165–125	9/39	350-700	9-42	5	89	<5
44	ECXd 1050.680	187445	220–240	245–190	11/52	700-1050	9-42	5	89	<5

Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
ALL	K107	97	43	23

K107



PrimeLine NFC C DALI2 Dx

Product features

- Compact casing shape

Functions

- Programmable via NFC interface (contactless)
 - Selectable current output
 - Programmable CLO function
 - Adjustable DC level
- With integrated switchable DALI power supply
- Dimmable: DALI (ED.2) D4i specification (Parts 250/251/252/253)

Electrical features

- Mains voltage: 220–240 V $\pm 10\%$
- Mains frequency: 50–60 Hz, 0 Hz
- DC Operation: 176–276 V (range of application)
- Push-in terminals:
 - rigid 0.5–1.5 mm²
 - strand 0.75–1.5 mm²
- Power factor at full load: > 0.95
- Open circuit voltage (U_{max.}): 60 V
- Secondary side switching of LED modules is not allowed.

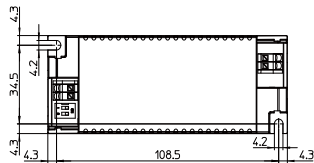
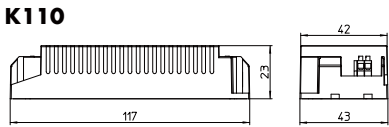


Electrical characteristics

Max. output W	Type	Ref. No.	Voltage V	Mains current mA	Inrush current A / μ s	Current output DC mA ($\pm 8\%$ 150-350mA $\pm 5\%$ 350-1050mA)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
44	ECXd 1050.681	187446	220–240	260–200	17/198	150-1050	9-50 (see working area)	4	88	<5

Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
187446	K110	117	42	23



Cord grip "sl" for K107 /K110

Blu2Light PrimeLine DIP switch C Casambi

Product features

- Compact casing shape

Functions

- Selectable current output by DIP switch
- Blu2Light Casambi Technology
- Suitable for central battery system for emergency lighting acc. to EN 50172

Electrical features

- Mains voltage: 220–240 V $\pm 10\%$
- Mains frequency: 50–60 Hz, 0 Hz
- DC Operation: 176–276 V
- Push-in terminals:
rigid 0.5–1.5 mm²
strand 0.75–1.5 mm²
- Power factor at full load: > 0.95
- Open circuit voltage (U_{max.}): 60 V
- Secondary side switching of LED modules is not allowed.



CASAMBI Blu2Light

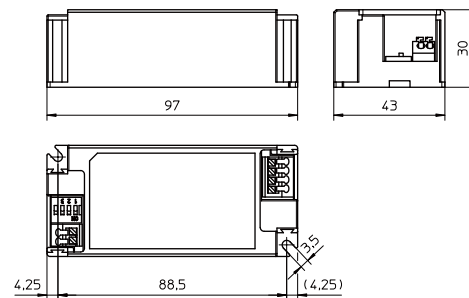
Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA ($\pm 5\%$)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
42	ECXd 1050.758	187627	220–240	214–198	10 / 32	150–1050	9–50	< 5	91,5	< 3

Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
187627	K86.1	97	43	30

K86



ComfortLine DIP switch C-wideUout DALI2

Product features

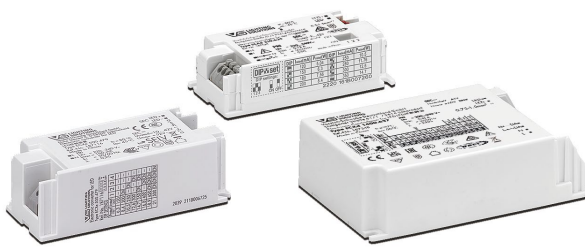
- Compact casing shape
- Built-in and separate cord-grip available

Functions

- Selectable current output by dip-switch

Electrical features

- Mains voltage: 220–240 V ±10%
- Mains frequency: 50–60 Hz
- Push-in terminals:
rigid 0.5–1.5 mm²
strand 0.75–1.5 mm²
- Power factor at full load: > 0.95
- Open circuit voltage (U_{max.}): 60 V
- Secondary side switching of LED modules is not allowed.
- SVM: < 0.4
- PstLM: < 1



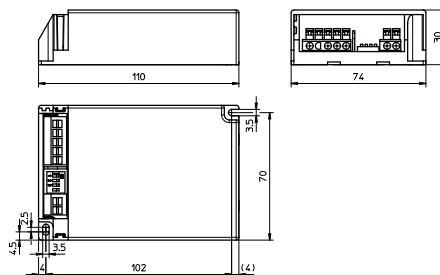
Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μs	Current output DC mA (± 5%)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
14	ECXd 350.634	187345	220–240	82–76	4 / 46	120–350	see table "DIP switch settings"	8	83	< 5
26	ECXd 700.635	187346	220–240	136–126	6 / 31	150–700		8	89	< 3
44	ECXd 1050.636	187347	220–240	228–210	7 / 55	700–1050		7	89	< 3
60	ECXd 1400.637	187348	220–240	309–284	8 / 33	700–1400		6	89	< 3

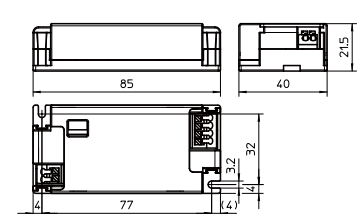
Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
187346, 187347	K86	97	43	30
187348	K99	110	74	30
187345	K100	85	40	21.5

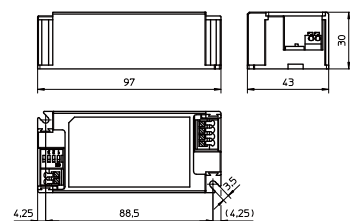
K99



K100




K86



Comfort COB Gen. 3

Technical Notes

- LED module for integration into luminaires 
- Dimensions: 19x19 mm
- Light emitting surface (LES): $\varnothing 14,9$ mm
- Use of external LED constant current driver



Electrical Characteristics

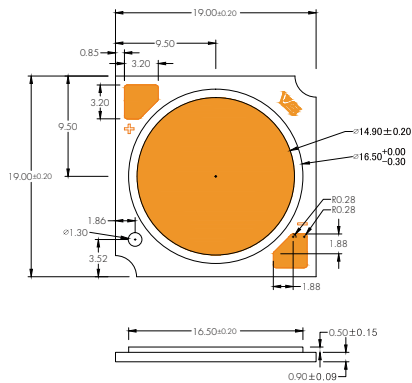
at $T_p = 65$ °C

Type	Typ. voltage DC					Typ. power consumption				
	350 mA	500 mA	600 mA	700 mA	1050 mA	350 mA	500 mA	600 mA	700 mA	1050 mA
	V	V	V	V	V	W	W	W	W	W
VCA3-126-xxx	33.2	34.3	34.7	35.3	—	11.6	17.2	20.8	24.7	—
VCA3-128-xxx	32.7	33.4	33.7	34.2	35.5	11.4	16.7	20.2	23.9	37.3

Voltage and power tolerance: $\pm 10\%$ | * Rated values

Dimensions

VCA3-126/128



The clearance and creepage distances are designed for operation with SELV drivers. Alternatively for fixing with LED holders the Comfort COB Gen. 3s can be fixed with screws. Then the wires must be soldered to the solder pads.

Optical Characteristics

at $t_p = 65^\circ\text{C}$

Type	Ref. No.	Colour	Correlated colour temperature* K	Typ. luminous flux** and efficiency at										Typ. beam angle °	Typ. CRI R_a	Photometric code
				350 mA		500 mA		600 mA		700 mA		1050 mA				
				lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W			
VCA3-126 – CRI 80																
VCA3-126-827	573408	warm white	2700	2102	181	2912	170	3408	164	3917	159	—	—	120	82	827/369
VCA3-126-830	573409	warm white	3000	2213	190	3065	179	3587	172	4123	167	—	—	120	82	830/369
VCA3-126-830B	573410	warm white	3000 (below BBL)	2168	187	3004	175	3516	169	4040	163	—	—	120	82	830/369
VCA3-126-831PW	573411	pearl white	3100	2213	190	3065	179	3587	172	4123	167	—	—	120	82	831/369
VCA3-126-832CW	573412	clear white	3200	2217	191	3071	179	3594	173	4131	167	—	—	120	82	832/369
VCA3-126-835	573413	neutral white	3500	2235	192	3096	181	3623	174	4164	169	—	—	120	82	835/369
VCA3-126-840	573414	neutral white	4000	2279	196	3156	184	3694	177	4244	172	—	—	120	82	840/369
VCA3-126-850	573415	cool white	5000	2323	200	3218	188	3766	181	4328	175	—	—	120	82	850/369
VCA3-126-857	573416	cool white	5700	2301	198	3187	186	3730	179	4287	173	—	—	120	82	857/369
VCA3-126 – CRI 90																
VCA3-126-927	573417	warm white	2700	1732	149	2399	140	2808	135	3228	131	—	—	120	92	927/369
VCA3-126-930	573418	warm white	3000 (below BBL)	1845	159	2556	149	2992	144	3438	139	—	—	120	92	930/369
VCA3-126-931PW	573419	pearl white	3100	1809	156	2505	146	2931	141	3369	136	—	—	120	92	931/369
VCA3-126-932CW	573420	clear white	3200	1818	156	2505	146	2931	141	3385	137	—	—	120	92	932/369
VCA3-126-935	573421	neutral white	3500 (below BBL)	1864	160	2582	151	3020	145	3472	141	—	—	120	92	935/369
VCA3-126-940	573422	neutral white	4000 (below BBL)	1900	164	2632	153	3081	148	3541	143	—	—	120	92	940/369
VCA3-128 – CRI 80																
VCA3-128-827	573423	warm white	2700	2129	186	2979	178	3526	174	4068	170	5812	156	120	82	827/369
VCA3-128-830	573424	warm white	3000	2241	196	3136	188	3713	184	4282	179	6116	164	120	82	830/369
VCA3-128-830B	573425	warm white	3000 (below BBL)	2196	192	3073	184	3637	180	4196	175	5993	161	120	82	830/369
VCA3-128-831PW	573426	pearl white	3100	2241	196	3136	188	3713	184	4282	179	6116	164	120	82	831/369
VCA3-128-832CW	573427	clear white	3200	2246	196	3142	188	3720	184	4290	179	6128	164	120	82	832/369
VCA3-128-835	573428	neutral white	3500	2263	198	3167	190	3750	185	4325	181	6177	166	120	82	835/369
VCA3-128-840	573429	neutral white	4000	2308	202	3229	193	3822	189	4409	184	6297	169	120	82	840/369
VCA3-128-850	573430	cool white	5000	2353	206	3292	197	3897	193	4495	188	6421	172	120	82	850/369
VCA3-128-857	573431	cool white	5700	2330	204	3260	195	3859	191	4452	186	6360	171	120	82	857/369
VCA3-128 – CRI 90																
VCA3-128-927	573432	warm white	2700	1754	153	2455	147	2906	144	3352	140	4789	128	120	92	927/369
VCA3-128-930	573433	warm white	3000 (below BBL)	1869	163	2615	157	3096	153	3571	149	5101	137	120	92	930/369
VCA3-128-930Vi	573434	warm white	3000 (vivid)	1608	140	2271	136	2713	134	3108	130	4513	121	120	96	930/369
VCA3-128-931PW	573435	pearl white	3100	1832	160	2563	153	3035	150	3500	146	4999	134	120	92	931/369
VCA3-128-932CW	573436	clear white	3200	1840	161	2575	154	3049	151	3516	147	5022	135	120	92	932/369
VCA3-128-935	573437	neutral white	3500 (below BBL)	1887	165	2641	158	3126	155	3606	151	5151	138	120	92	935/369
VCA3-128-940	573438	neutral white	4000 (below BBL)	1924	168	2693	161	3190	158	3677	154	5252	141	120	92	940/369
VCA3-128-950	573439	cool white	5000	2018	179	2824	169	3343	165	3855	161	5507	148	120	92	950/369
VCA3-128 – FOOD																
VCA3-128-MP	573440	Meat "Pink"	2000 "pink effect"	1320	115	1847	111	2186	108	2522	105	3602	97	120	82	820/369
VCA3-128-MVi	573441	Meat "Vivid"	3100 "meat vivid"	1376	120	1937	116	2306	114	2658	111	3861	104	120	88	831/369
VCA3-128-VBread	573442	VBread	2500 "VBRead"	1763	154	2482	149	2957	146	3401	142	4940	133	120	88	825/369

* Colour tolerance: 3 MacAdam | ** Production tolerance of luminous flux and efficiency: $\pm 10\%$ | Min. CRI R_a : > 80 at 8xx, > 90 at 9xx, > 94 at 930Vi

Comfort COB Gen.2 - VCA2-122 and VCA2-123 and VCA2-124

Technical Notes

- LED module for integration into luminaires
- Dimensions: 13.5x13.5 mm
- Light emitting surface (LES): Ø 6 mm or Ø 9 mm
- Use of external LED constant current driver



Electrical Characteristics

at $t_p = 65^\circ\text{C}$

Type	Typ. voltage DC			Typ. power consumption		
	250 mA V	350 mA * V	500 mA V	250 mA W	350 mA W	500 mA W
VCA2-122-xxx	34.5	35.7	—	8.6	12.5 *	—
VCA2-123-xxx	34.3	35.2	36.6	8.6	12.3 *	18.2

Voltage and power tolerance: $\pm 10\%$ | * Rated values

Type	Typ. voltage DC			Typ. power consumption		
	350 mA V	500 mA * V	700 mA V	350 mA W	500 mA W	700 mA W
VCA2-124-xxx	34.1	35.3	36.7	11.9	17.6 *	25.7

Voltage and power tolerance: $\pm 10\%$ | * Rated values

Optical Characteristics

at $t_p = 65^\circ\text{C}$

Type	Ref. No.	Colour	Correlated colour temperature * K	Typ. luminous flux ** and efficiency at						Typ. beam angle $^\circ$	Typ. CRI R_a	Photometric code
				250 mA		350 mA		500 mA				
				lm	lm/W	lm	lm/W	lm	lm/W			

VCA2-122 – CRI 80


VCA2-122-827	571299	warm white	2700	1147	133	1511	121	—	—	120	82	827/369
VCA2-122-830	571303	warm white	3000	1206	140	1590	127	—	—	120	82	830/369
VCA2-122-830B	571304	warm white	3000 (below BBL)	1182	137	1558	125	—	—	120	82	830/369
VCA2-122-831PW	571310	pearl white	3100	1206	140	1590	127	—	—	120	82	831/369
VCA2-122-832CW	571311	clear white	3200	1211	141	1593	128	—	—	120	82	832/369
VCA2-122-835	571312	neutral white	3500	1218	141	1606	129	—	—	120	82	835/369
VCA2-122-840	571324	neutral white	4000	1242	144	1637	131	—	—	120	82	840/369
VCA2-122-857	571326	cool white	5700	1255	146	1653	132	—	—	120	82	857/369

VCA2-122 – CRI 90

VCA2-122-927	571328	warm white	2700	940	109	1239	99	—	—	120	92	927/369
VCA2-122-930	571329	warm white	3000 (below BBL)	1001	116	1320	106	—	—	120	92	930/369
VCA2-122-931PW	571333	pearl white	3100	982	114	1293	104	—	—	120	92	931/369
VCA2-122-932CW	571334	clear white	3200	987	115	1299	104	—	—	120	92	932/369
VCA2-122-935	571335	neutral white	3500 (below BBL)	1011	117	1333	107	—	—	120	92	935/369
VCA2-122-940	571338	neutral white	4000 (below BBL)	1031	120	1359	109	—	—	120	92	940/369

Comfort COB Gen. 2 VCA2-1211 and VCA2-1213

Technical Notes

- LED module for integration into luminaires 
- Dimensions: 28x28 mm
- Light emitting surface (LES): Ø 17 mm, Ø 20 mm
- Use of external LED constant current driver



Electrical Characteristics

at $t_p = 65\text{ °C}$

Type	Typ. voltage DC					Typ. power consumption				
	700 mA V	1050 mA * V	1400 mA V	1700 mA V	2100 mA V	700 mA W	1050 mA W	1400 mA W	1700 mA W	2100 mA W
VCA2-1211-xxx	33.2	34.2	35.1	35.9	—	23.2	35.9 *	49.1	61	—
VCA2-1213-xxx	33	33.9	34.8	35.4	36.3	23.1	35.6 *	48.6	60.2	76.3

Voltage and power tolerance: $\pm 10\%$ | * Rated values

Optical Characteristics

at $t_p = 65\text{ °C}$

Type	Ref. No.	Colour	Correlated colour temperature* K	Typ. luminous flux** and efficiency at										Typ. beam angle (°)	Typ. CRI R_a	Photo-metric code
				700 mA		1050 mA		1400 mA		1700 mA		2100 mA				
				lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W			
VCA2-1211 – CRI 80																
VCA2-1211-827	571414	warm white	2700	3946	170	5705	159	7252	148	8358	137	—	—	120	82	827/369
VCA2-1211-830	571415	warm white	3000	4153	179	6004	167	7632	155	8797	144	—	—	120	82	830/369
VCA2-1211-830B	571416	warm white	3000 (below BBL)	4070	175	5884	164	7478	152	8620	141	—	—	120	82	830/369
VCA2-1211-831PW	571417	pearl white	3100	4153	179	6004	167	7632	155	8797	144	—	—	120	82	831/369
VCA2-1211-835	571418	neutral white	3500	4195	181	6064	169	7708	157	8885	146	—	—	120	82	835/369
VCA2-1211-840	571419	neutral white	4000	4276	184	6182	172	7859	160	9058	148	—	—	120	82	840/369
VCA2-1211-850	571420	cool white	5000	4360	188	6303	176	8011	163	9235	151	—	—	120	82	850/369
VCA2-1211-857	571421	cool white	5700	4319	186	6243	174	7935	161	9146	150	—	—	120	82	857/369
VCA2-1211 – CRI 90																
VCA2-1211-927	571422	warm white	2700	3235	139	4677	130	5945	121	6852	112	—	—	120	92	927/369
VCA2-1211-930	571423	warm white	3000 (below BBL)	3446	148	4983	139	6333	129	7301	120	—	—	120	92	930/369
VCA2-1211-931PW	571424	pearl white	3100	3378	146	4884	136	6208	126	7155	117	—	—	120	92	931/369
VCA2-1211-935	571426	neutral white	3500 (below BBL)	3480	150	5032	140	6397	130	7372	121	—	—	120	92	935/369
VCA2-1211-940	571427	neutral white	4000 (below BBL)	3549	153	5131	143	6522	133	7517	123	—	—	120	92	940/369

Emergency Complete

With or without self-diagnosis function and integrated battery

Product features

- Designed for operation of LED luminaires for safety lighting for rescue routes and extremely hazardous workplaces
- For emergency lighting for 3 hrs. operating time
- Suitable for emergency lighting acc. to VDE 0108 or EN 50172
- With self-diagnosis function acc. to EN 62034 (Self test switchable via Dip switch)
- Ambient temperature: 5 to 50 °C
- Lithium-ion (LiFePO4) rechargeable battery is built-in into the casing
- Charging time of rechargeable battery: up to 24 hrs. depending on the capacity



Electrical characteristics

Type	Ref. No.	Battery	Nominal emergency operation period	Battery output power in emergency operation (W)	Min. lumen in emergency operation* (lm)	Output voltage	
		Type	hrs.			V	V max.

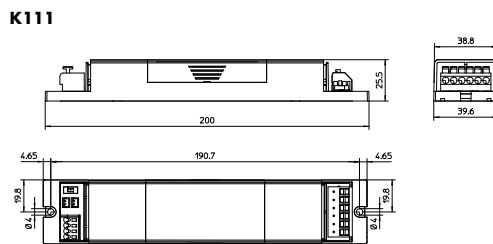
K111 - Dimensions (LxWxH): 200x39.6x25.5 mm

EMCc180.028	187552	3.2 V/3 Ah	3	2.5	250	10-300	350
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* at 100 lm/W per LED unit

Dimensions

- Casing: K111
- Length: 200 mm
- Width: 39.6 mm
- Height: 25.5 mm



Batterys for Emergency Complete

Lithium-ion battery

Charging time of rechargeable batteries: up to 24 hrs. depending on the capacity

This battery is a replacement.

A battery is included when you order the EMCc180.028 187552 emergency kit.



Emergency Power W	Ref.No.	Rechargeable Lithium-ion Battery	Battery full charge time h	Charge current mA ±10%	Battery discharge voltage Min-Typ-Max V	Battery discharge current Min-Typ-Max mA	Battery output power Min-Typ-Max W	Emergency duration h
2.5	183208	LiFePO4 2IFR 18650	16	200	2.5 - 3.2 - 3.6	650 - 740 - 840	1.9 - 2.4 - 2.7	3

EasyLine DIP switch L Gen.2

Product features

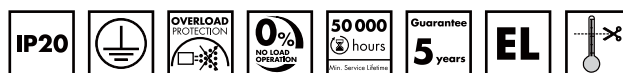
- Linear casing shape

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, 0 Hz
- Push-in terminals: 0.5–1.5 mm²
- Power factor at full load: 0.95
- Max. working voltage (U_{out}): 250 V except 275 V for 187587
- Secondary side switching of LED modules is not allowed.



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 5%)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
26	ECXe 350.738	187585	220–240	230–190	24.5 / 310	200	40–130	<4	>93	<3
32.5						250				
39						300				
45.5						350				
38	ECXe 350.739	187586	220–240	330–280	26 / 330	200	90–190	<4	>95	<3
47.5						250				
57						300				
66.5						350				
48	ECXe 350.740	187587	220–240	420–360	34.6 / 346	200	120–240	<5	>95	<3
60						250				
72						300				
84						350				
45.5	ECXe 500.741	187588	220–240	330–280	26 / 330	350	40–130	<4	>94	<3
52						400				
58.5						450				
65						500				
63	ECXe 500.742	187589	220–240	450–385	34.6 / 342	350	90–180	<5	>95	<3
72						400				
81						450				
90						500				
71.5	ECXe 700.743	187590	220–240	460–395	34.6 / 340	550	40–130	<5	>95	<3
78						600				
84.5						650				
91						700				

Maximum ratings

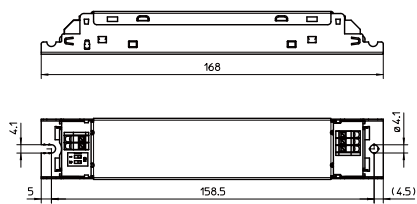
Exceeding the maximum ratings can lead to reduction of service life or destruction of the drivers.

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.		
187585	-25	+50	10	90	-40	+85	5	95	+75	IP20
187586									+75	
187587									+80	
187588									+75	
187589									+80	
187590									+80	

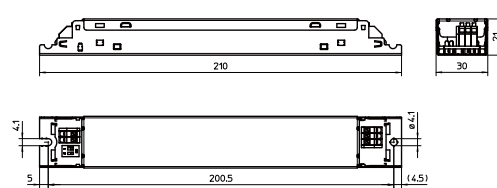
Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
187585	M106	168	30	21
187586				
187588				
187587	M107	210	30	21
187589				
187590				

M106



M107



EasyLine DIP switch L 120V

Product features

- Linear casing shape

Functions

- Selectable current output via DIP switch

Electrical features

- Mains voltage: 120–277 V \pm 10%
- Mains frequency: 50–60 Hz
- Power factor at full load: 0.95
- Max. working voltage (U_{OUT}): 250 V except 275 V for 187331
- Secondary side switching of LED modules is not allowed.

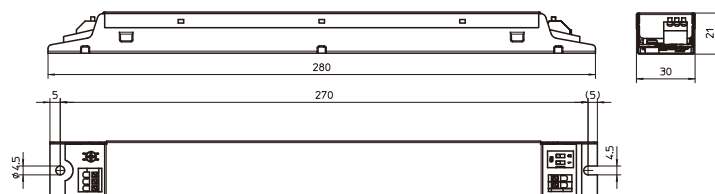


Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA (\pm 5%)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
26	ECXe 350.623	187330	120–277	420–175	25 / 200	200	40–130	<7	>93	<3
33						250				
39						300				
46						350				
48	ECXe 350.624	187331	120–277	750–320	45 / 245	200	120–240	<3	>95	<3
60						250				
72						300				
84						350				
46	ECXe 500.625	187332	120–277	605–250	30 / 300	350	40–130	<4	>94	<3
52						400				
59						450				
65						500				
63	ECXe 500.626	187333	120–277	785–340	45 / 245	350	90–180	<2	>94	<3
72						400				
81						450				
90						500				
72	ECXe 700.627	187334	120–277	830–355	45 / 245	550	40–130	<2	>94	<3
78						600				
85						650				
91						700				

Dimensions

- Casing: M7.2
- Length: 280 mm
- Width: 30 mm
- Height: 21 mm



ComfortLine DIP switch L-DALI2

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: 198–276 V, 0 Hz
- Push-in terminals: 0.5–1.5 mm²
- Power factor at full load: 0.95
- Max. working voltage (U_{out}): 250 V except 275 V for 187336
- Secondary side switching of LED modules is not allowed.

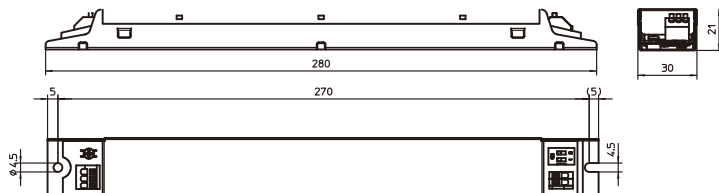


Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μs	Current output DC mA (± 5%)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
26	ECXd 350.628	187335	220–240	230–205	31 / 170	200	40–130	<5	>90	<3
32.5						250				
39						300				
45.5						350				
38	ECXd350.665	187416	220–240	330–295	31 / 200	200	90–190	< 4	> 92	<3
47.5						250				
57						300				
66.5						350				
48	ECXd 350.629	187336	220–240	405–370	37 / 240	200	120–240	<4	>93	<3
60						250				
72						300				
84						350				
45.5	ECXd 500.630	187337	220–240	325–290	33 / 200	350	40–130	<4	>91	<3
52						400				
58.5						450				
65						500				
63	ECXd 500.631	187338	220–240	440–405	37 / 256	350	90–180	<5	>92	<3
72						400				
81						450				
90						500				
71.5	ECXd 700.632	187339	220–240	440–405	37 / 251	550	40–130	<4	>92	<3
78						600				
84.5						650				
91						700				

Dimensions

- Casing: M7.2
- Length: 280 mm
- Width: 30 mm
- Height: 21 mm



PrimeLine NFC L DALI2 Dx

Product Feature

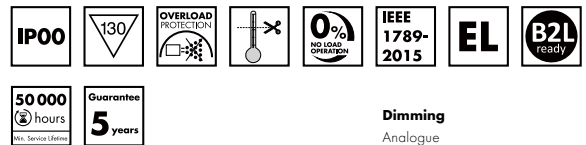
- Linear casing shape

Functions

- Programmable via NFC interface (contactless)
- Selectable current output
- Programmable CLO function
- Adjustable DC level
- With integrated switchable DALI power supply

Electrical features

- Mains voltage: 220–240 V ±10%
- Mains frequency: 50–60 Hz
- DC operation: 198–276 V, 0 Hz
- Push-in terminals: 0.2–1.5 mm²
- Power factor at full load: > 0.97
- Max. working voltage (U_{out}): < 250 V
- Secondary side switching of LED modules is not allowed.



Dimming
Analogue



Current adjustment

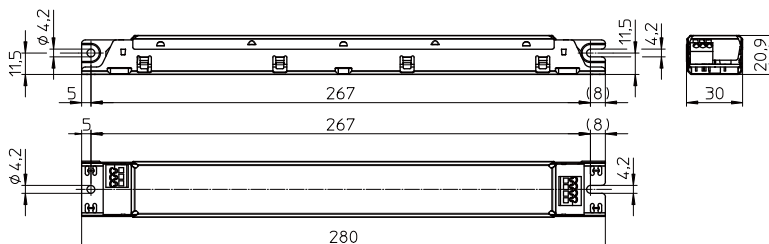


Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μs	Current output DC mA (± 5%)	Voltage output DC (V)	DALI bus power supply (mA)		THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
								guaranteed	max.			
40	ECXd 400.569	187238	220-240	210-195	4.8 / 941	100-400	30-120	50	62	< 8	> 92	< 1
40	ECXd 800.570	187239	220-240	209-195	5.4 / 1230	400-800	30-70	50	62	< 13	> 90	< 1
85	ECXd 400.571	187240	220-240	425-390	5.1 / 901	100-400	100-225	50	62	< 8	> 95	< 1
85	ECXd 800.572	187241	220-240	425-390	5.4 / 1260	400-800	30-130	50	62	< 6	> 94	< 1

Dimensions

- Casing: M7.1
- Length: 280 mm
- Width: 30 mm
- Height: 21 mm



EasyLine DIP switch L-LV

Product Feature

- 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.



Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μs	Current output DC mA (± 5%)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %	
10.2	ECXe 350.722	187547	220–240	95–88	13.6 / 118	200	15–51	<8	>86.5	<3	
12.8						250					
15.3						300					
17.9						350					
25.5	ECXe 650.723	187548	220–240	17–158	17.4 / 154	500	15–51	<4	>91	<1	
28						550					
30.6						600					
33.2						650					
35.7	ECXe 1050.724	187549	220–240	203–197	16.8 / 162	700	15–51	<4	>91	<1	
38.3						750					
40.8						800					
40.8						850					15–48
41.4						900					15–46
41.8						950					15–44
40						1000					15–40
39.9						1050					15–38
58.7						ECXe 1500.725					187550
60	1200	15–50									
60	1250	15–48									
59.8	1300	15–46									
60.8	1350	15–45									
58.8	1400	15–42									
60.9	1450	15–42									
60	1500	15–40									

Maximum ratings

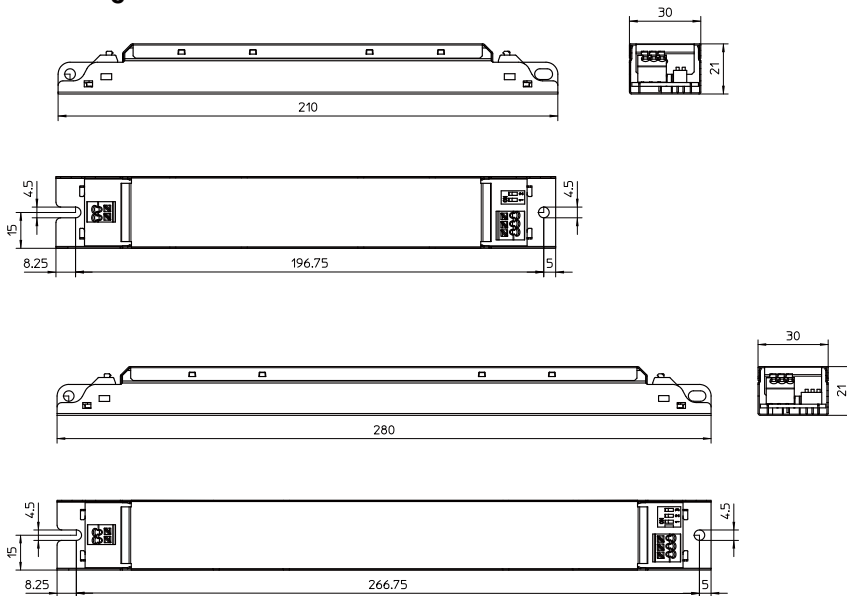
Exceeding the maximum ratings can lead to reduction of service life or destruction of the drivers.

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.		
187547	-20	+60	20	90	-25	+60	20	90	+80	IP20
187548									+85	IP20
187549					-25	+80			+80	IP20
187550									+90	IP20

Dimensions

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

Drawings



EasyLine DIP sitch L-LV DALI

Product features

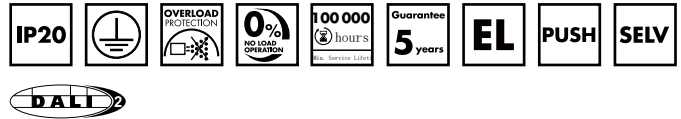
- Linear casing shape

Functions

- Selectable current output via DIP switch

Electrical features

- Mains voltage: 220–240 V $\pm 10\%$
- Mains frequency: 50–60 Hz
- DC operation: 176–280 V
- Push-in terminals: 0.5–1.5 mm²
- Power factor at full load: 0.98
- Max. working voltage (U_{max}): 60 V
- Secondary side switching of LED modules is not allowed.



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.		
187653	-25	+60	10	90	-25	+85	10	90	+75	IP20
187654									+80	
187655										

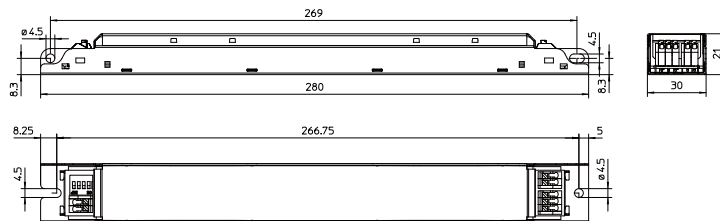
Operating Life

at operation temperatures at t_c point

Operation current	Ref. No.			
	187653	187654, 187655		
all types	75°C	65°C	80°C	70°C
hrs.	50.000	100.000	50.000	100.000

Dimensions

- Casing: M7.6
- Length: 280 mm
- Width: 30 mm
- Height: 21 mm



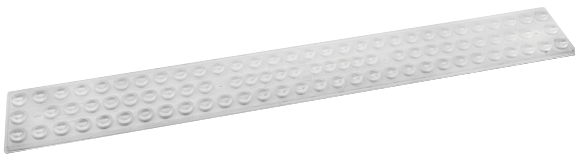
Linear Optics 3R for SMD Comfort-B HO 90 single lenses 500 mm IP40

Technical notes

- Material: PC
- Max. allowed temperature: 100 °C
- Dimensions (LxWxH): 500x62x4.2 mm
- Fixation with flat or cylinder head screws (M4) or with fixing expanding rivets
- Max. torque: 1.2 Nm (M4)

Lighting properties

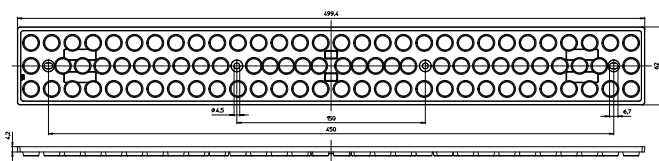
- CLC (constant light colour): very low colour temperature deviations over beam angle
- UGR: optimized glare reduction
- E95 - Efficiency > 95%



Light distribution	Type	Ref. No.	Lighting properties	Material	Efficiency* %	Degree of protection	Weight g	Packaging unit pcs.
High Rack	96322	573686	UGR	Clear	94	IP40	107	140
Diffuse 90°	96322	573687	CLC	Diffuse	86	IP40	107	140
Medium 60°	96323	573688	UGR, E95	Clear	95	IP40	95	140

* Measured on a white luminaire sheet

Dimensions



light distributions with VS LED modules (with Cree JE2835)



Linear Optics 3R for SMD Comfort-B 60 single lenses 500 mm IP40

Technical notes

- Material: PMMA, clear
- Max. allowed temperature: 80 °C
- Dimensions (LxWxH): 500x62x4.2 mm
- Fixation with flat or cylinder head screws (M4) or with fixing expanding rivets
- Max. torque: 1.2 Nm (M4)

Lighting properties

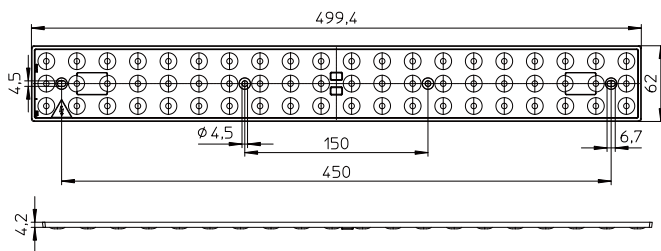
- CLC (constant light colour): very low colour temperature deviations over beam angle
- UGR: optimized glare reduction
- E95 - Efficiency > 95%



Electrical characteristics

Light distribution	Type	Ref. No.	Lighting properties	Material	Efficiency* %	Degree of protection	Weight g	Packaging unit pcs.
Extra Wide 110°	96304	571094	UGR, CLC, E95	clear	95	IP40	74.5	160
Wide 90°	96300	569527	UGR, E95	clear	95	IP40	76.3	160
Medium 60°	96303	571093	UGR, E95	clear	95	IP40	87.1	140
High Rack	96302	571092	UGR, E95	clear	95	IP40	90.5	140
High Rack CLC	96302	572154	UGR, CLC	clear	91	IP40	90.5	140
Retail SYM	96301	569528	UGR, CLC, E95	clear	95	IP40	87.2	140
Diffuse 110°	96304	570378	CLC	diffuse	94	IP40	72.4	160

* Measured on a white luminaire sheet




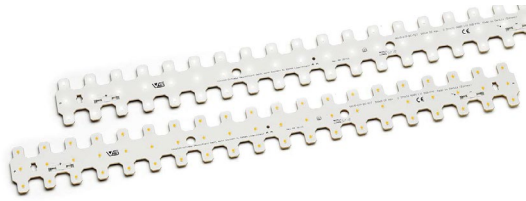
light distributions with VS LED modules (with Cree JE2835)



LED Line SMD Comfort-B 3R Gen.2

Technical Notes

- LED built-in module for integration into luminaires 
- Dimensions (LxB): 493x49 mm
- Driving current: 150 mA / 200 mA / 250 mA / 350 mA / 500 mA
- On-board push terminal system for backside wiring
- Colour tolerance: 3-step MacAdam
- Beam angle: 120°



Electrical Characteristics

at $t_p = 50\text{ }^\circ\text{C}$

Type	No. of LEDs	Typ. voltage DC					Temperature coefficient [mV/K]	Typ. Power consumption				
		150 mA V	200 mA V	250 mA V	350 mA V	500 mA V		150 mA W	200 mA W	250 mA W	350 mA W	500 mA W
WU-M-619-SH-BC	60	53.4	53.9	54.4	55.9	58.3	-22.26	8.0	10.8	13.6	19.6	29.1

Voltage and power consumption tolerance: $\pm 10\%$

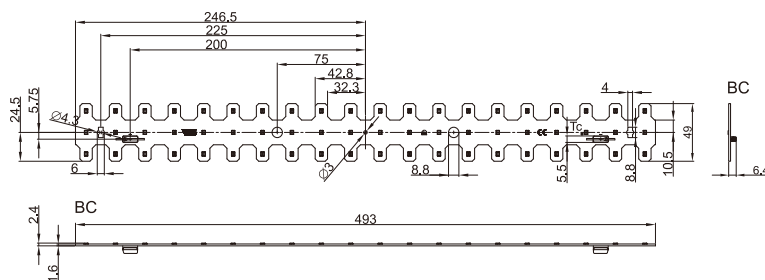
Use of external LED constant current driver required.

Optical Characteristics

at $t_p = 50\text{ }^\circ\text{C}$; without secondary optics

Type	Ref. No.	Colour	Correlated colour temperature* K	Luminous flux** (lm) and efficiency (lm/W) at										Photo-metric code	
				150 mA		200 mA		250 mA		350 mA		500 mA			
				typ. lm	typ. lm/W	typ. lm	typ. lm/W	typ. lm	typ. lm/W	typ. lm	typ. lm/W	typ. lm	typ. lm/W		
CRI80															
WU-M-619-SH-BC-830	572172	warm white	3000	1525	190	2020	188	2515	185	3485	178	4900	168	830 / 349	
WU-M-619-SH-BC-835	572940	neutral white	3500	1540	193	2045	190	2545	187	3525	180	4955	170	835 / 349	
WU-M-619-SH-BC-840	572173	neutral white	4000	1610	201	2135	198	2660	195	3685	188	5180	178	840 / 349	
WU-M-619-SH-BC-850	572617	cool white	5000	1610	201	2135	198	2660	195	3685	188	5180	178	850 / 349	
WU-M-619-SH-BC-865	572175	cool white	6500	1570	196	2085	193	2595	191	3595	184	5055	173	865 / 349	

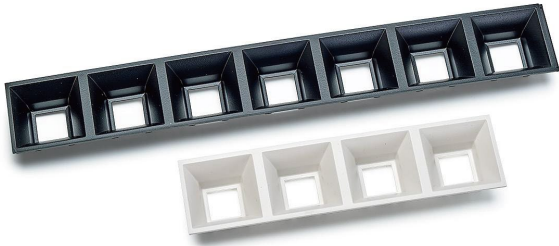
Dimensions



Linear Grids 1R for SMD Light&Dark

Technical Notes

- Material: PC white, black or translucent
- Max. allowed temperature: 80 °C
- Light point distance 40 mm
- Clip fixing with optics
- Matt surfaces
- 1Rx7 grid with short ends or with box edge for lining up
- spacing 1Rx7 grid when lined up: 280 mm



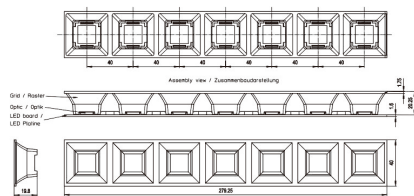
Electrical Characteristics

UGR

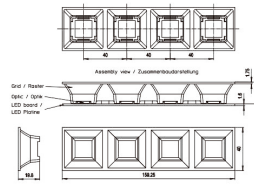
Type	Ref. No.	Type of construction	Color	Weight g	Packaging unit pcs.
91400	571824	1 Rx7 short ends	white	35	108
91400	571825	1 Rx7 short ends	black	35	108
91400	574284	1 Rx7 short ends	translucent	35	108
91401	571880	1 Rx7 to line up	white	35	108
91401	571881	1 Rx7 to line up	black	35	108
91401	573725	1 Rx7 to line up	translucent	35	108
91410	571882	1 Rx4 short ends	white	20	108
91410	571883	1 Rx4 short ends	black	20	108
91410	574285	1 Rx4 short ends	translucent	20	108

Dimensions

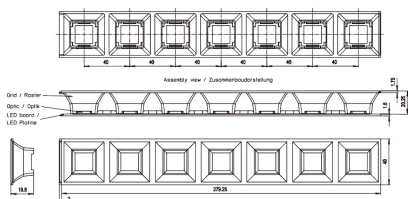
Type 91400



Type 91410



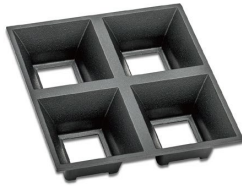
Type 91401



Grids 2R for SMD Light&Dark 2Rx2 80mm

Technical Notes

- Material: PC white, black or translucent
- Max. allowed temperature: 80 °C
- Light point distance 40 mm
- Clip fixing with optics
- Matt surfaces
- 2Rx2 grid with short ends



Electrical Characteristics

Type	Ref. No.	Type of construction	Color	Weight g	Packaging unit pcs.
91420	572669	2Rx2 short ends	white	20	280
91420	572670	2Rx2 short ends	black	20	280
91420	574154	2Rx2 short ends	translucent	20	280

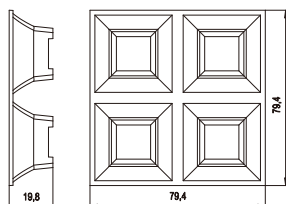
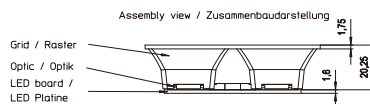
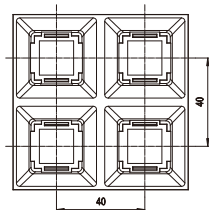
UGR

Suitable VS Optics

Grid	Optic Light&Dark	Optic type
2Rx2	1Rx2 (2 times)	91471, 91472

Dimensions

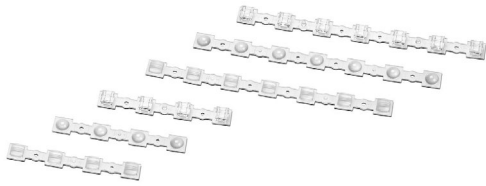
Type 91420



Linear Optics 1R for SMD Light&Dark

Technical Notes

- For 2835, 3030, 5630 and 5050 LEDs of the most common LED manufacturers, with up to four LEDs per lens (for 2835 and 3030).
- Material: PMMA
- Max. allowed temperature: 80 °C
- Light point distance 40 mm
- Through holes for M3 screws and rivets
- Max. tightening torque for M3 screw: 0.5 Nm



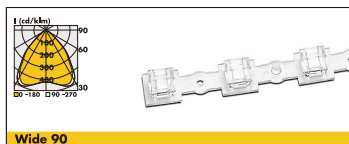
Lighting properties

- CLC (constant light colour): very low colour temperature deviations over beam angle
- UGR: optimized glare reduction



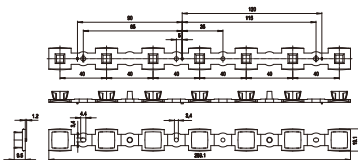
Light distribution	Type	Ref. No.	Lighting properties	Type of construction	Efficiency %	Weight g	Packaging unit pcs.
Medium 65°	91451	571826	UGR, CLC	1Rx7	91	14	324
Wide 90°	91452	571827	UGR, CLC	1Rx7	92	18	324
ASYM	91453	572478	UGR, CLC	1Rx7	88	14.8	324
Medium 65°	91461	571884	UGR, CLC	1Rx4	91	7.7	540
Wide 90°	91462	571885	UGR, CLC	1Rx4	92	10	540
ASYM	91463	572479	UGR, CLC	1Rx4	88	8.2	540
Medium 65°	91471	572628	UGR, CLC	1Rx2	91	3.5	390
Wide 90°	91472	572636	UGR, CLC	1Rx2	92	4.7	390

* Measured with a white grid

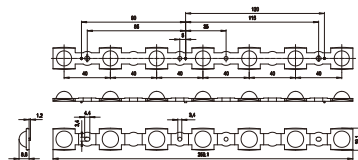


Dimensions

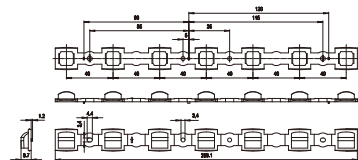
Type 91452



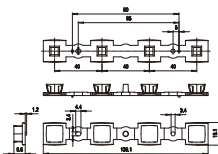
Type 91451



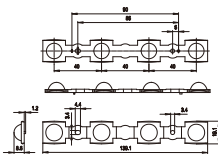
Type 91453



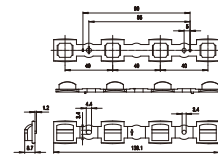
Type 91462



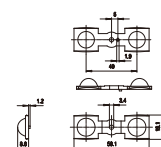
Type 91461



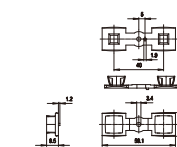
Type 91463



Type 91471



Type 91472



LED Line SMD W2.5 Light& Dark

Technical Notes

- LED built-in module for integration into luminaires
- Dimensions
WU-M-694: 280x25 mm
WU-M-695: 560x25 mm
- Driving current:
WU-M-694-W/B, WU-M-695-W/B:
150 mA, 200 mA, 300 mA, 350 mA, 500 mA
- On-board push-in terminals
- Beam angle: 120°
- Colour rendering index (CRI): Ra80 and Ra90



Electrical Characteristics

at $t_p = 50^\circ\text{C}$

Type	Number of LEDs*	Typ. voltage DC** (V)					Typ. power consumption** (W)				
		150 mA	200 mA	300 mA	350 mA	500 mA	150 mA	200 mA	300 mA	350 mA	500 mA
		V	V	V	V	V	W	W	W	W	W
WU-M-694-W/B	14	18.9	19.3	19.9	20.3	21.1	2.8	3.9	6.0	7.2	10.5
WU-M-695-W/B	28	37.9	38.5	39.9	40.5	42.1	5.7	7.7	12.0	14.2	21.1

* per channel | ** Tolerance of voltage and power: $\pm 10\%$ / data per channel | **Use of external LED constant current driver required.**

Optical Characteristics – CRI > 80

at $t_p = 50^\circ\text{C}$, without secondary optics

CRI: $R_a > 80$

Type	Ref. No. PCB colour		Colour	Correlated colour temp.*	Typ. luminous flux** and typ. efficiency**										Photometric code	
	White (W)	Black (B)			150 mA		200 mA		300 mA		350 mA		500 mA		< 500 mA	≥ 500 mA
			K	lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W			
WU-M-694-W/B 28LEDs - 280mm																
WU-M-694-W/B-827/865	572464	572466	warm white	2700	515	181	680	176	995	166	1145	162	1590	151	827/349	827/359
			cool white	6500	545	193	720	187	1055	176	1215	172	1690	160	865/349	865/359
WU-M-695-W/B 56LEDs - 560mm																
WU-M-695-W/B-827/865	572468	572470	warm white	2700	1030	181	1360	176	1990	166	2290	162	3180	151	827/349	827/359
			cool white	6500	1095	193	1445	187	2110	176	2435	172	3375	160	865/349	865/359

* Colour tolerance: 3 MacAdam | ** Production tolerance of luminous flux and efficiency: $\pm 10\%$

Optical Characteristics – CRI > 90

at $t_p = 50\text{ }^\circ\text{C}$, without secondary optics

CRI: $R_a > 90$

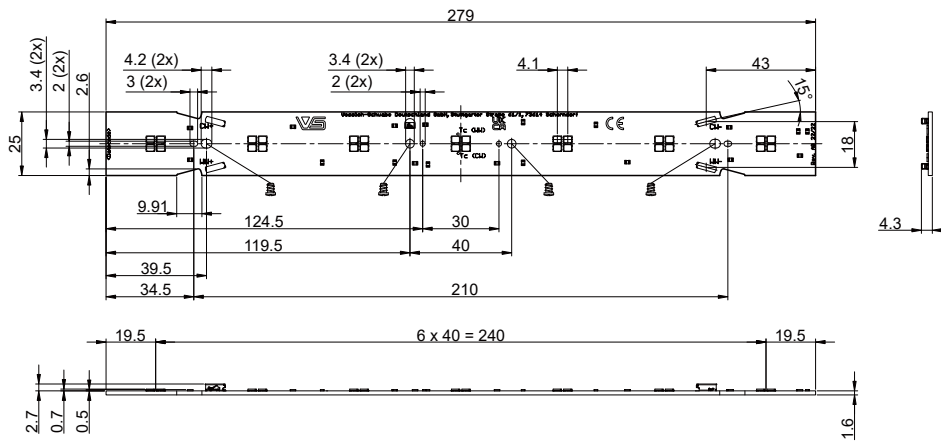
Type	Ref. No.		Colour	Correlated colour temp.*	Typ. luminous flux** and typ. efficiency**										Photometric code	
	PCB colour				at 150 mA		200 mA		300 mA		350 mA		500 mA		< 500 mA	≥ 500 mA
	White (W)	Black (B)			lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W		
WU-M-694-W/B 28LEDs - 280mm																
WU-M-694-W/B-927/965	572465	572467	warm white	2700	430	152	570	148	835	139	960	136	1335	127	927/349	927/359
			cool white	6500	455	160	600	156	875	147	1010	143	1405	133	965/349	965/359
WU-M-695-W/B 56LEDs - 560mm																
WU-M-695-W/B-927/965	572469	572471	warm white	2700	865	152	1140	148	1665	139	1920	136	2665	127	927/349	927/359
			cool white	6500	910	160	1200	156	1755	147	2025	143	2805	133	965/349	965/359

* Colour tolerance: 3 MacAdam | ** Production tolerance of luminous flux and efficiency: ±10%

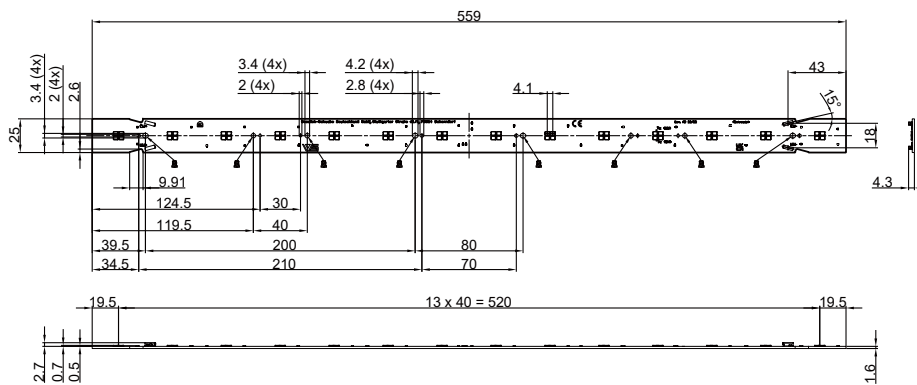
Mechanical Dimensions

STC = Small Top Connection

WU-M-694-W/B



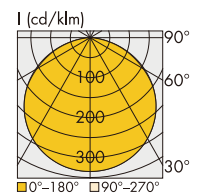
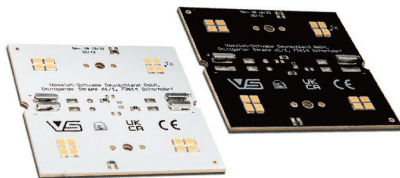
WU-M-695-W/B



LED SMD Light& Dark Square

Technical Notes

- LED built-in module for integration into luminaires
- Dimensions
WU-M-709: 62x62 mm
- Driving current:
Non-SELV:
WU-M-709-W/B:
150 mA, 200 mA, 350 mA, 500 mA, 700 mA
SELV:
WU-M-709-W/B-LV
100 mA, 150 mA, 200 mA, 250 mA, 350 mA
- On-board push-in terminals
- Beam angle: 120°
- SELV and Non-SELV application
- Colour rendering index (CRI): Ra80 and Ra90



Electrical Characteristics Non-SELV variants

at $t_p = 50^\circ\text{C}$

Type	No. of SMDs	Typ. voltage DC					Temperature coefficient mV/K	Typ. power consumption				
		150 mA V	200 mA V	350 mA V	500 mA V	700 mA V		150 mA W	200 mA W	350 mA W	500 mA W	700 mA W
WU-M-709-W/B	16	10.6	10.7	10.9	11.3	11.7	-4,49	1.6	2.1	3.8	5.6	8.2

Voltage and power consumption tolerance: $\pm 10\%$ | **Use of external LED constant current driver required.**

Electrical Characteristics SELV variants

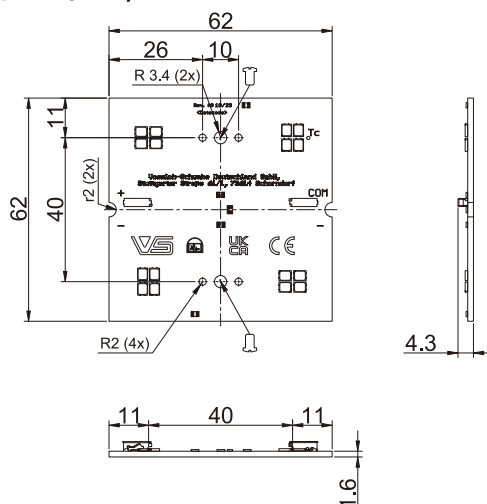
at $t_p = 50^\circ\text{C}$

Type	No. of SMDs	Typ. voltage DC					Temperature coefficient mV/K	Typ. power consumption				
		100 mA V	150 mA V	200 mA V	250 mA V	350 mA V		100 mA W	150 mA W	200 mA W	250 mA W	350 mA W
WU-M-709-W/B-LV	16	21.3	21.7	22.1	22.5	23.4	-8,98	2.1	3.2	4.4	5.6	8.2

Voltage and power consumption tolerance: $\pm 10\%$ | **Use of external LED constant current driver required.**

Dimensions

WU-M-709-W/B



Linear Optics 1R for SMD W2 Universal Tunnel Lens 560mm IP20/40

Technical Notes

- For 3030, 2835* and 5630* midpower LEDs of common LED manufacturers (*mounted lengthwise)
- Material: PMMA
- Max. allowed temperature: 80 °C
- Dimensions (LxWxH): 559x43x11.6 mm
- Clip fixation for metal sheets with wall thickness of 0.6–0.8 mm or aluminium profiles
- End caps for luminaires degree of protection IP40
- SMD boards have to be attached separately and are additionally pressed on the index points by the optics.



Lighting properties

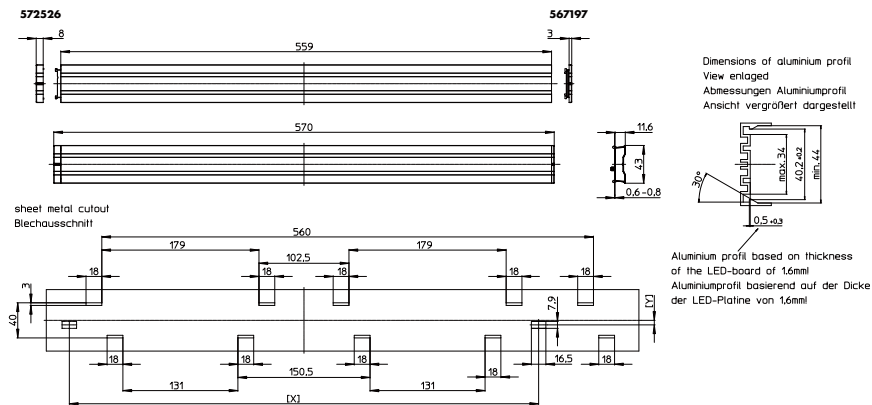
- ELA (extended luminous area): light emission over the entire surface of the optics

Light distribution	Type	Ref. No.	Lighting properties	Index pins	Light transmission	Efficiency %	Weight g	Packaging unit pcs.
Diffuse 105°	96600	568617	ELA	no	diffuse	90	116	72
Wide 90°	96600	568608	ELA	no	clear	93	116	72
Medium 60°	96603	568611	ELA	no	clear	93	115	72
Retail SYM 1	96601	568609	ELA	no	clear	93	118	72
High Rack	96602	568610	ELA	no	clear	90	107	72

* Measured on a white luminaire sheet



Dimensions



See dimensions x and y for cutout of the bottom connection terminals (BC) on the corresponding LED board drawing!
Siehe Maße x und y für Ausschnitt der rückseitigen Anschlussklemmen (BC) auf entsprechender LED Platinen Zeichnung!

Linear Optics 1R for SMD W2- IP65

Technical Notes

- For 3030, 2835* and 5630* midpower LEDs of common LED manufacturers (*mounted lengthwise)
- Material: PC
- Max. allowed temperature: 100 °C
- Fixing holes for M4 screws
- Degree of protection: IP65 (incl. silicone gasket)
- Impact resistance: IK08/5J
- SMD boards have to be attached separately and are additionally pressed on the index points by the optics.

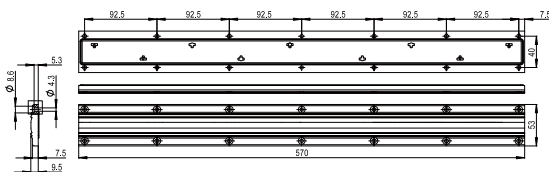


Light distribution	Type	Ref. No.	Light transmission	Efficiency %	Weight g	Dimensions (LxWxH) mm	Packaging unit pcs.
Wide 90°	96700	571820	clear	91	137	570x53x9.5	84
Batwing 145°	96701	571821	clear	90	156	570x53x15	70
Medium 60°	96703	571823	klar	90	139	570x53x10.5	84

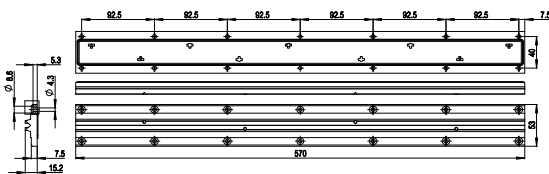
* Measured on a white luminaire sheet

Dimensions

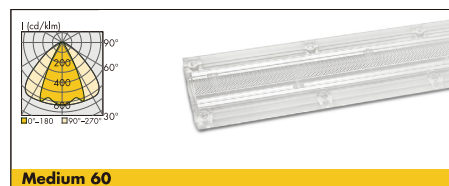
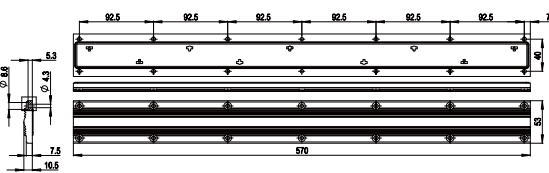
Type 96700 – Wide 90°



Type 96701 – Batwing 145°



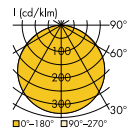
Type 96703 – Medium 60°



LED Line SMD W2 Comfort Gen. 2

Technical Notes

- LED built-in module for integration into luminaires
- Dimensions
 - WU-M-666: 70x20 mm
 - WU-M-667/668: 140x20 mm
 - WU-M-669/670: 280x20 mm
 - WU-M-673: 500x20 mm
 - WU-M-671/672: 560x20 mm
- Driving current: 250 mA / 350 mA / 500 mA / 600 mA / 700 mA
- On-board push-in terminals, optional on top or bottom
- Beam angle: 120°



Electrical Characteristics

at $t_p = 50\text{ °C}$

Type	No. of SMDs	Typ. voltage DC					Temperature coefficient mV/K	Typ. power consumption				
		250 mA V	350 mA V	500 mA V	600 mA V	700 mA V		250 mA W	350 mA W	500 mA W	600 mA W	700 mA W
LED Line SMD W2 Comfort Gen. 2 – L07												
WU-M-666	6	5.4	5.6	5.8	5.9	6	-2.23	1.4	2	2.9	3.6	4.2
LED Line SMD W2 Comfort Gen. 2 – L14												
WU-M-667	6	5.4	5.6	5.8	5.9	6	-2.23	1.4	2	2.9	3.6	4.2
WU-M-668	12	10.9	11.2	11.7	11.9	12.1	-4.45	2.7	3.9	5.8	7.1	8.4
LED Line SMD W2 Comfort Gen. 2 – L28												
WU-M-669	12	10.9	11.2	11.7	11.9	12.1	-4.45	2.7	3.9	5.8	7.1	8.4
WU-M-670	24	21.8	22.4	23.3	23.7	24.1	-8.90	5.4	7.8	11.7	14.2	16.9
LED Line SMD W2 Comfort Gen. 2 – L50												
WU-M-673	42	38.1	39.2	40.8	41.5	42.2	-15.58	9.5	13.7	20.4	24.9	29.6
LED Line SMD W2 Comfort Gen. 2 – L56												
WU-M-671	24	21.8	22.4	23.3	23.7	24.1	-8.90	5.4	7.8	11.7	14.2	16.9
WU-M-672	48	43.5	44.7	46.6	47.4	48.3	-17.81	10.9	15.7	23.3	28.5	33.8

Voltage and power consumption tolerance: $\pm 10\%$ | **Use of external LED constant current driver required.**

Maximum Ratings

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

Type	Operating current (mA)	Operation temperature range at t_c point		Storage temperature range		Max. allowed repetitive peak current for frequencies ≥ 100 Hz (mA)
		$^{\circ}\text{C min.}$	$^{\circ}\text{C max.}$	$^{\circ}\text{C min.}$	$^{\circ}\text{C max.}$	
All types	700	-20	+80	-20	+70	900

Operating Life

L80/B10

in hours at measured temperature at t_p point

	250 mA			350 mA			500 mA			600 mA			700 mA		
	40 $^{\circ}\text{C}$	50 $^{\circ}\text{C}$	80 $^{\circ}\text{C}$	40 $^{\circ}\text{C}$	50 $^{\circ}\text{C}$	80 $^{\circ}\text{C}$	40 $^{\circ}\text{C}$	50 $^{\circ}\text{C}$	80 $^{\circ}\text{C}$	40 $^{\circ}\text{C}$	50 $^{\circ}\text{C}$	80 $^{\circ}\text{C}$	40 $^{\circ}\text{C}$	50 $^{\circ}\text{C}$	80 $^{\circ}\text{C}$
All types	> 72,000	> 72,000	> 55,000	> 72,000	> 72,000	> 54,000	> 72,000	> 72,000	> 51,000	> 54,000	> 54,000	> 50,000	> 36,000	> 36,000	> 36,000

Optical Characteristics – CRI > 80

at $t_p = 50\text{ }^\circ\text{C}$

CRI: $R_a > 80$

Type	Ref. No.	Connection			Colour	Correlated colour temp.* K	Typ. luminous flux** and typ. efficiency** at												Photometric code		
		top (TC)	bottom (BC)	top (STC)			250 mA		350 mA		500 mA		600 mA		700 mA		250, 350, 500 mA	600, 700 mA			
							lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W					
LED Line SMD W2 Comfort Gen. 2 – L07																					
WU-M--666-TC/STC-827	573064	—	on request	WW	2700	245	179	340	173	475	163	565	158	645	153	827/349					
WU-M--666-TC/STC-830	570726	—	573284	WW	3000	250	185	350	178	490	168	580	163	665	157	830/349					
WU-M--666-TC/STC-840	570727	—	573285	NW	4000	265	195	370	188	520	178	615	172	705	167	840/349					
WU-M--666-TC/STC-850	571453	—	on request	CW	5000	265	195	370	188	520	178	615	172	705	167	850/349					
WU-M--666-TC/STC-865	571454	—	on request	CW	6500	260	191	360	184	505	173	600	168	685	162	865/349 /359					
LED Line SMD W2 Comfort Gen. 2 – L14																					
WU-M--667-TC/BC/STC-827	571842	on request	574257	WW	2700	245	179	340	173	475	163	565	158	645	153	827/349					
WU-M--667-TC/BC/STC-830	570728	on request	on request	WW	3000	250	185	350	178	490	168	580	163	665	157	830/349					
WU-M--667-TC/BC/STC-840	570729	on request	on request	NW	4000	265	195	370	188	520	178	615	172	705	167	840/349					
WU-M--667-TC/BC/STC-850	570730	on request	on request	CW	5000	265	195	370	188	520	178	615	172	705	167	850/349					
WU-M--667-TC/BC/STC-865	570731	on request	on request	CW	6500	260	191	360	184	505	173	600	168	685	162	865/349 /359					
WU-M--668-TC/BC/STC-827	572553	on request	on request	WW	2700	490	179	675	173	950	163	1125	158	1290	153	827/349					
WU-M--668-TC/BC/STC-830	570732	on request	573356	WW	3000	505	185	695	178	980	168	1160	163	1330	157	830/349					
WU-M--668-TC/BC/STC-835	573052	on request	on request	WW	3500	510	187	705	180	990	170	1175	165	1345	159	835/349					
WU-M--668-TC/BC/STC-840	570733	on request	on request	NW	4000	530	195	735	188	1035	178	1225	172	1405	167	840/349					
WU-M--668-TC/BC/STC-850	570734	573159	on request	CW	5000	530	195	735	188	1035	178	1225	172	1405	167	850/349					
WU-M--668-TC/BC/STC-865	570735	571455	on request	CW	6500	520	191	720	184	1010	173	1195	168	1370	162	865/349 /359					
LED Line SMD W2 Comfort Gen. 2 – L28																					
WU-M--669-TC/BC/STC-827	571843	on request	on request	WW	2700	490	179	675	173	950	163	1125	158	1290	153	827/349					
WU-M--669-TC/BC/STC-830	570736	570773	570753	WW	3000	505	185	695	178	980	168	1160	163	1330	157	830/349					
WU-M--669-TC/BC/STC-840	570737	570774	570754	NW	4000	530	195	735	188	1035	178	1225	172	1405	167	840/349					
WU-M--669-TC/BC/STC-850	570738	570775	570755	CW	5000	530	195	735	188	1035	178	1225	172	1405	167	850/349					
WU-M--669-TC/BC/STC-865	570739	570776	570756	CW	6500	520	191	720	184	1010	173	1195	168	1370	162	865/349 /359					
WU-M--670-TC/BC/STC-827	571745	on request	574258	WW	2700	975	179	1355	173	1905	163	2255	158	2585	153	827/349					
WU-M--670-TC/BC/STC-830	570740	570777	570757	WW	3000	1005	185	1395	178	1960	168	2320	163	2660	157	830/349					
WU-M--670-TC/BC/STC-835	573076	573103	on request	NW	3500	1015	187	1410	180	1980	170	2345	165	2690	159	835/349					
WU-M--670-TC/BC/STC-840	570741	570778	570758	NW	4000	1065	195	1475	188	2070	178	2455	172	2810	167	840/349					
WU-M--670-TC/BC/STC-850	570742	570779	570759	CW	5000	1065	195	1475	188	2070	178	2455	172	2810	167	850/349					
WU-M--670-TC/BC/STC-865	570743	570780	570760	CW	6500	1035	191	1440	184	2020	173	2390	168	2745	162	865/349 /359					
LED Line SMD W2 Comfort Gen. 2 – L50																					
WU-M--673-TC/BC/STC-830	574218	on request	570769	WW	3000	1760	185	2440	178	3430	168	4060	163	4655	157	830/349					
WU-M--673-TC/BC/STC-840	570752	570789	570770	NW	4000	1860	195	2580	188	3625	178	4290	172	4920	167	840/349					
WU-M--673-TC/BC/STC-850	on request	on request	570771	CW	5000	1860	195	2580	188	3625	178	4290	172	4920	167	850/349					
WU-M--673-TC/BC/STC-865	on request	on request	570772	CW	6500	1815	191	2515	184	3535	173	4185	168	4800	162	865/349 /359					
LED Line SMD W2 Comfort Gen. 2 – L56																					
WU-M--671-TC/BC/STC-827	571844	on request	574259	WW	2700	975	179	1355	173	1905	163	2255	158	2585	153	827/349					
WU-M--671-TC/BC/STC-830	570744	570781	570761	WW	3000	1005	185	1395	178	1960	168	2320	163	2660	157	830/349					
WU-M--671-TC/BC/STC-840	570745	570782	570762	NW	4000	1065	195	1475	188	2070	178	2455	172	2810	167	840/349					
WU-M--671-TC/BC/STC-850	570746	570783	570763	CW	5000	1065	195	1475	188	2070	178	2455	172	2810	167	850/349					
WU-M--671-TC/BC/STC-865	570747	570784	570764	CW	6500	1035	191	1440	184	2020	173	2390	168	2745	162	865/349 /359					
WU-M--672-TC/BC/STC-827	571744	on request	574260	WW	2700	1955	179	2710	173	3805	163	4505	158	5165	153	827/349					
WU-M--672-TC/BC/STC-830	570748	570785	570765	WW	3000	2010	185	2790	178	3920	168	4640	163	5320	157	830/349					
WU-M--672-TC/BC/STC-835	573075	on request	on request	NW	3500	2035	187	2820	180	3965	170	4690	165	5380	159	835/349					
WU-M--672-TC/BC/STC-840	570749	570786	570766	NW	4000	2125	195	2950	188	4145	178	4905	172	5625	167	840/349					
WU-M--672-TC/BC/STC-850	570750	570787	570767	CW	5000	2125	195	2950	188	4145	178	4905	172	5625	167	850/349					
WU-M--672-TC/BC/STC-865	570751	570788	570768	CW	6500	2075	191	2875	184	4045	173	4785	168	5485	162	865/349 /359					

2700 K and 3000 K = warm white (WW), 3500 K and 4000 K = neutral white (NW), 5000 K and 6500 K = cool white (CW)

* Colour tolerance: 3 MacAdam | ** Production tolerance of luminous flux and efficiency: ±10%

Optical Characteristics – CRI > 90

at $t_p = 50\text{ °C}$

CRI: $R_a > 90$

Type	Ref. No. Connection			Colour	Correlated colour temp.* K	Typ. luminous flux** and typ. efficiency** at										Photometric code	
	top (TC)	bottom (BC)	top (STC)			250 mA lm	250 mA lm/W	350 mA lm	350 mA lm/W	500 mA lm	500 mA lm/W	600 mA lm	600 mA lm/W	700 mA lm	700 mA lm/W	250, 350, 500 mA	600, 700 mA

LED Line SMD W2 Comfort Gen. 2 – L07

WU-M--666-TC/STC-930	on request	—	on request	WW	3000	215	158	295	152	415	143	495	140	565	134	930/349
WU-M--666-TC/STC-940	on request	—	573619	NW	4000	225	165	310	159	435	150	515	145	595	140	940/349
WU-M--666-TC/STC-950	on request	—	on request	CW	5000	225	165	310	159	435	150	515	145	595	140	950/349
WU-M--666-TC/STC-965	on request	—	on request	CW	6500	215	158	300	153	420	144	495	140	570	135	965/349 /359

LED Line SMD W2 Comfort Gen. 2 – L14

WU-M--667-TC/BC/STC-930	on request	on request	on request	WW	3000	215	158	295	152	415	143	495	140	565	134	930/349
WU-M--667-TC/BC/STC-940	on request	on request	on request	NW	4000	225	165	310	159	435	150	515	145	595	140	940/349
WU-M--667-TC/BC/STC-950	on request	on request	on request	CW	5000	225	165	310	159	435	150	515	145	595	140	950/349
WU-M--667-TC/BC/STC-965	on request	on request	on request	CW	6500	215	158	300	153	420	144	495	140	570	135	965/349 /359
WU-M--668-TC/BC/STC-930	570790	on request	on request	WW	3000	430	158	595	152	835	143	985	139	1130	134	930/349
WU-M--668-TC/BC/STC-940	570791	on request	on request	NW	4000	450	165	620	159	875	150	1035	145	1185	140	940/349
WU-M--668-TC/BC/STC-950	on request	on request	on request	CW	5000	450	165	620	159	875	150	1035	145	1185	140	950/349
WU-M--668-TC/BC/STC-965	on request	on request	on request	CW	6500	430	158	600	153	840	144	995	140	1140	135	965/349 /359

LED Line SMD W2 Comfort Gen. 2 – L28

WU-M--669-TC/BC/STC-930	570792	on request	572345	WW	3000	430	158	595	152	835	143	985	139	1130	134	930/349
WU-M--669-TC/BC/STC-940	570793	570814	572346	NW	4000	450	165	620	159	875	150	1035	145	1185	140	940/349
WU-M--669-TC/BC/STC-950	570794	on request	on request	CW	5000	450	165	620	159	875	150	1035	145	1185	140	950/349
WU-M--669-TC/BC/STC-965	570795	on request	on request	CW	6500	430	158	600	153	840	144	995	140	1140	135	965/349 /359
WU-M--670-TC/BC/STC-930	570796	570815	570808	WW	3000	855	157	1185	152	1670	143	1975	139	2265	134	930/349
WU-M--670-TC/BC/STC-935	on request	on request	571829	WW	3500	855	157	1185	152	1670	143	1975	139	2265	134	935/349
WU-M--670-TC/BC/STC-940	570797	570816	570809	NW	4000	895	165	1245	159	1745	150	2070	145	2370	140	940/349
WU-M--670-TC/BC/STC-950	570798	on request	on request	CW	5000	895	165	1245	159	1745	150	2070	145	2370	140	950/349
WU-M--670-TC/BC/STC-965	570799	on request	on request	CW	6500	860	158	1195	153	1680	144	1990	140	2280	135	965/349 /359

LED Line SMD W2 Comfort Gen. 2 – L50

WU-M--673-TC/BC/STC-930	on request	on request	570812	WW	3000	1500	157	2080	152	2920	143	3455	139	3960	134	930/349
WU-M--673-TC/BC/STC-940	on request	on request	570813	NW	4000	1570	165	2175	159	3055	150	3620	145	4150	140	940/349
WU-M--673-TC/BC/STC-950	on request	on request	on request	CW	5000	1570	165	2175	159	3055	150	3620	145	4150	140	950/349
WU-M--673-TC/BC/STC-965	on request	on request	on request	CW	6500	1510	158	2090	153	2940	144	3480	140	3990	135	965/349 /359

LED Line SMD W2 Comfort Gen. 2 – L56

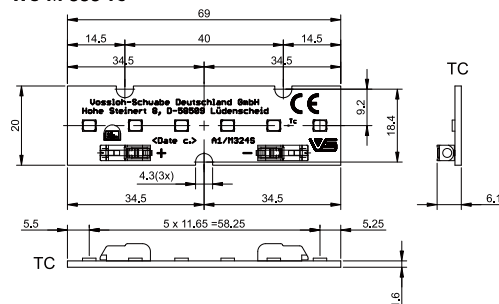
WU-M--671-TC/BC/STC-930	570800	on request	572343	WW	3000	855	157	1185	152	1670	143	1975	139	2265	134	930/349
WU-M--671-TC/BC/STC-940	570801	570817	572344	NW	4000	895	165	1245	159	1745	150	2070	145	2370	140	940/349
WU-M--671-TC/BC/STC-950	570802	on request	on request	CW	5000	895	165	1245	159	1745	150	2070	145	2370	140	950/349
WU-M--671-TC/BC/STC-965	570803	on request	on request	CW	6500	860	158	1195	153	1680	144	1990	140	2280	135	965/349 /359
WU-M--672-TC/BC/STC-930	570804	570818	570810	WW	3000	1715	157	2375	152	3335	143	3950	139	4530	134	930/349
WU-M--672-TC/BC/STC-935	on request	on request	571830	WW	3500	1715	157	2375	152	3335	143	3950	139	4530	134	935/349
WU-M--672-TC/BC/STC-940	570805	570819	570811	NW	4000	1795	165	2485	159	3495	150	4135	145	4740	140	940/349
WU-M--672-TC/BC/STC-950	570806	on request	on request	CW	5000	1795	165	2485	159	3495	150	4135	145	4740	140	950/349
WU-M--672-TC/BC/STC-965	570807	573248	on request	CW	6500	1725	158	2390	153	3360	144	3975	140	4560	135	965/349 /359

3000 K = warm white (WW), 3500K and 4000 K = neutral white (NW), 5000 K and 6500 K = cool white (CW)

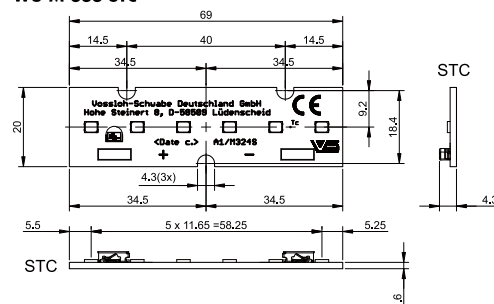
* Colour tolerance: 3 MacAdam | ** Production tolerance of luminous flux and efficiency: $\pm 10\%$

Mechanical Dimensions

WU-M-666-TC



WU-M-666-STC



TC = Top Connection


BC = Bottom Connection

STC = Small Top Connection

For more parameters, please refer to the specification sheet, please contact sales team to provide.

LED Line SMD W2 Easy Gen. 2

Technical Notes

- LED built-in module for integration into luminaires 
- Dimensions
WU-M-700: 280x20 mm
WU-M-701: 560x20 mm
- Driving current: 150 / 250 mA / 300 mA / 350 mA / 500 mA
- On-board push-in terminals, optional on top or bottom
- Beam angle: 120°



Electrical Characteristics

at $t_p = 50\text{ }^\circ\text{C}$

Type	No. of SMDs	Typ. voltage DC					Temperature coefficient mV/K	Typ. power consumption				
		150 mA V	250 mA V	300 mA V	350 mA V	500 mA V		150 mA W	250 mA W	300 mA W	350 mA W	500 mA W
LED Line SMD W2 Easy Gen. 2 – L28												
WU-M-700	35	18.5	18.9	19.1	19.3	19.8	-7.21	2.8	4.7	5.7	6.8	9.9
LED Line SMD W2 Easy Gen. 2 – L56												
WU-M-701	70	37.0	37.9	38.3	38.6	39.5	-14.42	5.6	9.5	11.5	13.5	19.8

Voltage and power consumption tolerance: $\pm 10\%$ | **Use of external LED constant current driver required.**

Optical Characteristics – CRI > 80

at $t_p = 50\text{ }^\circ\text{C}$

CRI: $R_a > 80$

Type	Ref. No. Connection			Colour	Correlated colour temp.* K	Typ. luminous flux** and typ. efficiency** at										Photometric code
	top (TC)	bottom (BC)	small top (STC)			150 mA lm	150 mA lm/W	250 mA lm	250 mA lm/W	300 mA lm	300 mA lm/W	350 mA lm	350 mA lm/W	500 mA lm	500 mA lm/W	
LED Line SMD W2 Easy Gen. 2 – L28																
WU-M-700-TC/BC/STC-830	572672	572778	572779	WW	3000	500	180	830	175	995	173	1155	171	1645	166	830/349
WU-M-700-TC/BC/STC-840	572639	572637	572638	NW	4000	520	187	865	182	1035	180	1205	178	1710	173	840/349
WU-M-700-TC/BC/STC-850	572673	on request	572780	CW	5000	520	187	865	182	1035	180	1205	178	1710	173	850/349
WU-M-700-TC/BC/STC-865	572674	on request	572781	CW	6500	510	183	845	178	1010	176	1175	174	1675	169	865/349
LED Line SMD W2 Easy Gen. 2 – L56																
WU-M-701-TC/BC/STC-830	572675	572786	572787	WW	3000	1000	180	1660	175	1985	173	2310	171	3285	166	830/349
WU-M-701-TC/BC/STC-840	572644	572642	572643	NW	4000	1040	187	1725	182	2065	180	2405	178	3420	173	840/349
WU-M-701-TC/BC/STC-850	572676	on request	572813	CW	5000	1040	187	1725	182	2065	180	2405	178	3420	173	850/349
WU-M-701-TC/BC/STC-865	572677	572765	572789	CW	6500	1015	183	1690	178	2020	176	2355	174	3345	169	865/349

3000 K = warm white (WW), 4000 K = neutral white (NW), 5000 K and 6500 K = cool white (CW)

* Colour tolerance: 3 MacAdam | ** Production tolerance of luminous flux and efficiency: $\pm 10\%$

Optical Characteristics – CRI > 90

at $t_p = 50\text{ }^\circ\text{C}$

CRI: $R_a > 90$

Type	Ref. No. Connection			Colour	Correlated colour temp. * K	Typ. luminous flux** and typ. efficiency** at										Photometric code
	top (TC)	bottom (BC)	small top (STC)			150 mA		250 mA		300 mA		350 mA		500 mA		
						lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W	

LED Line SMD W2 Easy Gen. 2 – L28

WU-M-700-TC/BC/STC-927	572950	on request	on request	WW	2700	405	146	670	141	795	139	920	136	1280	129	927/349
WU-M-700-TC/BC/STC-930	572766	572782	572783	WW	3000	405	146	670	141	795	139	920	136	1280	129	930/349
WU-M-700-TC/BC/STC-940	572767	572784	572785	NW	4000	455	163	745	158	890	155	1025	152	1425	144	940/349
WU-M-700-TC/BC/STC-950	572768	on request	on request	CW	5000	455	163	745	158	890	155	1025	152	1425	144	950/349
WU-M-700-TC/BC/STC-965	572769	on request	on request	CW	6500	455	163	745	158	890	155	1025	152	1425	144	965/349

LED Line SMD W2 Easy Gen. 2 – L56

WU-M-701-TC/BC/STC-927	572951	on request	on request	WW	2700	815	146	1340	141	1595	139	1845	136	2560	129	927/349
WU-M-701-TC/BC/STC-930	572790	572791	572792	WW	3000	815	146	1340	141	1595	139	1845	136	2560	129	930/349
WU-M-701-TC/BC/STC-940	572793	572794	572795	NW	4000	905	163	1490	158	1775	155	2055	152	2850	144	940/349
WU-M-701-TC/BC/STC-950	572796	on request	on request	CW	5000	905	163	1490	158	1775	155	2055	152	2850	144	950/349
WU-M-701-TC/BC/STC-965	572797	on request	on request	CW	6500	905	163	1490	158	1775	155	2055	152	2850	144	965/349

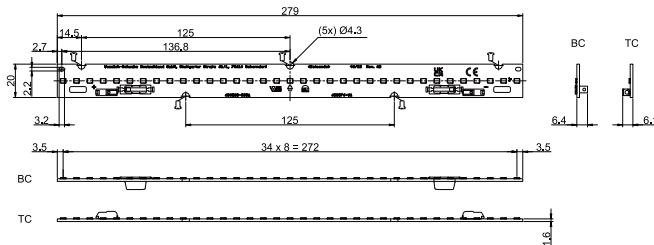
3000 K = warm white (WW), 4000 K = neutral white (NW), 5000 K and 6500 K = cool white (CW)

* Colour tolerance: 3 MacAdam | ** Production tolerance of luminous flux and efficiency: $\pm 10\%$

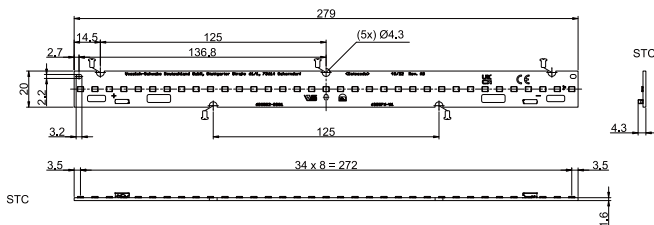
Mechanical Dimensions

TC = Top Connection
BC = Bottom Connection
STC = Small Top Connection

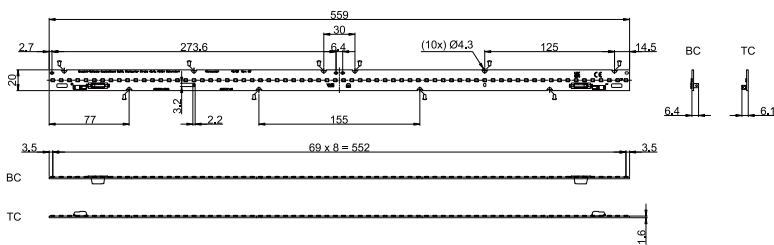
WU-M-700-BC/TC



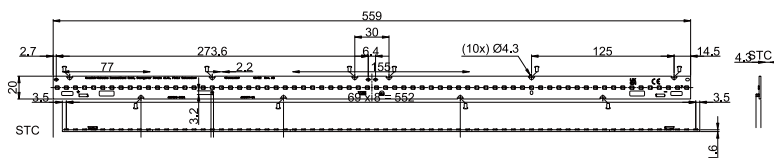
WU-M-700-STC



WU-M-701-BC/TC



WU-M-701-STC



EasyLine DIP switch S

Product features

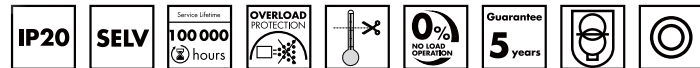
- Compact casing shape

Functions

- Selectable current output by DIP switch
- Easy parallel connection of modules enables because of two output terminals, (internally parallel connection)

Electrical features

- Mains voltage: 220–240 V \pm 10%
- Mains frequency: 50–60 Hz
- Input terminal: 0.5–2.5 mm² / Output terminal: 0.2–1.5 mm²
- Power factor at full load: > 0.95
- Open circuit voltage (U_{max.}): 60 V
- Secondary side switching of LED modules is not allowed.

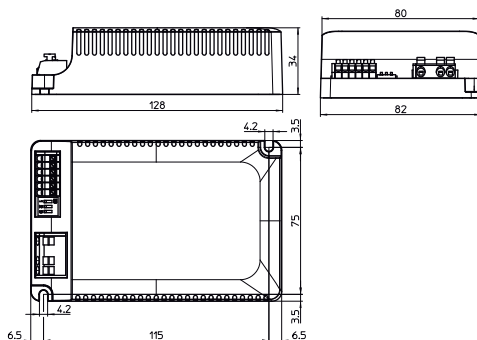


Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA (\pm 5%)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
40	ECXe 700.671	187431	220–240	206–189	32 / 304	350–700	19–57	7	> 88	< 5
60	ECXe 1050.673	187436	220–240	305–279	28 / 352	700–1050	19–57	6	> 90	< 5
75	ECXe 1400.672	187432	220–240	383–351	30 / 360	700–1400	19–57	5	> 90	< 5

Dimensions

- Casing: K106
- Length: 128 mm
- Width: 82 mm
- Width: 34 mm



ComfortLine NFC S MidNight

Product features

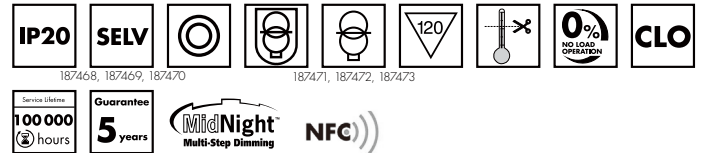
- Compact casing shape

Functions

- Selectable current output via NFC interface
- Contactless programmable via NFC interface
 - Dimming via MidNight function
 - Dimming via Control phase function
 - Constant Lumen Output (CLO)

Electrical features

- Mains voltage: 220–240 V AC
- Mains frequency: 50–60 Hz
- Push-in terminals
Input (L, N, PE/Equip)/Control Phase: 0.2–1.5 mm²
Output: 0.2–1.5 mm²
- Power factor at full load: > 0.95
- Open circuit voltage (U_{max}):
70 V (187468), 100 V (187469), 120 V (187470)
Max. working voltage (U_{out}):
140 V (187471), 260 V (187472), 300 V (187473)
- Secondary side switching of LED modules is not allowed.



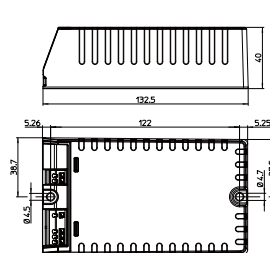
Electrical characteristics

Max. output W	Type	Ref. No.	Nominal input voltage range (50–60 Hz) V AC	Mains current mA	Inrush current A / μ s	Current output DC mA (\pm 5%)	Factory settings mA	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
26.6	ECXe 1050.686	187468	176–305	160	35 / 200	110–1050	700	20–48	4	87	\leq 3
40	ECXe 1050.687	187469	176–305	220	35 / 200	110–1050	700	28–60	3	89	\leq 3
60	ECXe 1050.688	187470	176–305	320	35 / 200	110–1050	700	38–90	3	90	\leq 3
80.5	ECXe 1050.689	187471	176–305	420	55 / 300	110–1050	700	35–120	3	91.5	\leq 3
120	ECXe 1050.690	187472	176–305	600	60 / 300	110–1050	700	75–220	3	92	\leq 3
165	ECXe 1050.691	187473	176–305	840	60 / 500	110–1050	700	115–270	3	93	\leq 3

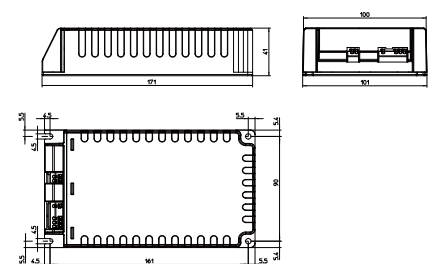
Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
187468	K72.2	132.5	77,4	40
187469				
187470				
187471				
187472				
187473	K75.2	171	101	41

K72.2



K75.2



ComfortLine Prog S 1-10 V MidNight

Product features

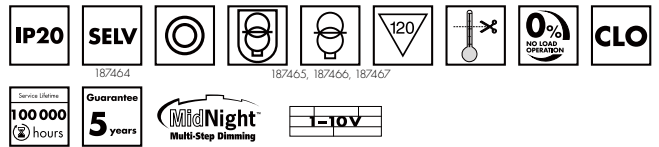
- Compact casing shape

Functions

- Selectable current output via Offline programming
- Programmable via USB interface
 - MidNight function
 - Constant Lumen Output (CLO)

Electrical features

- Mains voltage: 176-305 V AC
- Mains frequency: 50-60 Hz
- Push-in terminals
 - Input (L, N, G): 0.5-2.5 mm²
 - Output: 0.2-1.5 mm²
 - Dimming: 0,2-1,5 mm²
- Power factor at full load: > 0.96
- Open circuit voltage (U_{max}): 85 V (187464)
Max. working voltage (U_{out}): 160 V (187465),
260 V (187466), 320 V (187465)
- Secondary side switching of LED modules is not allowed.



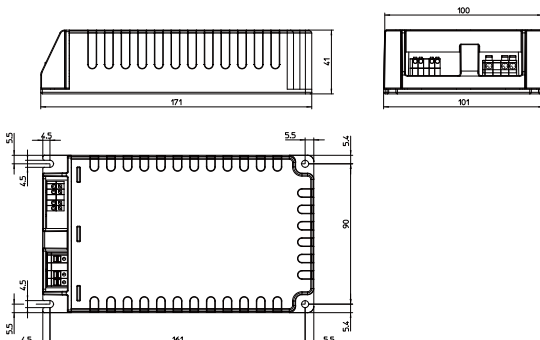
Electrical characteristics

Max. output W	Type	Ref. No.	Nominal input voltage range (50-60 Hz) V AC	Mains current mA	Inrush current A / μ s	Current output DC mA (\pm 5%)	Factory settings mA	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
40	ECXd 1050.682	187464	176-305	220	43 / 300	110-1050	700	24-60	3	89	\leq 3
80	ECXd 1050.683	187465	176-305	420	55 / 300	110-1050	700	35-120	3	91	\leq 3
120	ECXd 1050.684	187466	176-305	600	60 / 300	110-1050	700	75-220	3	92	\leq 3
165	ECXd 1050.685	187467	176-305	840	60 / 500	110-1050	700	115-270	3	93	\leq 3

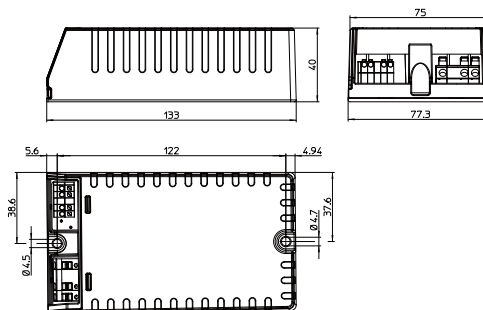
Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
187464	K72.2	132.5	77,4	40
187465				
187466				
187467	K75.2	171	101	41

K75.2



K72.2



PrimeLine NFC S-MD DALI2 Dx

Product features

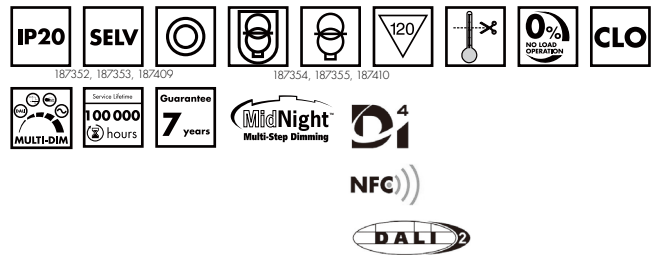
- Compact casing shape

Functions

- Selectable current output via NFC interface
- Programmable via NFC interface (contactless)
 - MidNight function
 - Constant Lumen Output (CLO)

Electrical features

- Mains voltage: 220–240 V AC
- Mains frequency: 50–60 Hz
- Push-in terminals
 - Input (L, N, G): 0.5–2.5 mm²
 - Output: 0.2–1.5 mm²
 - Dimming: 0.2–1.0 mm²
- Power factor at full load: > 0.95
- Open circuit voltage (U_{max}):
 - 70 V (187352), 100 V (187353), 120 V (187409)
- Max. working voltage (U_{out}): 140 V (187354), 200 V (187355), 260 V (187410)
- Start-up time: 1–1.5s



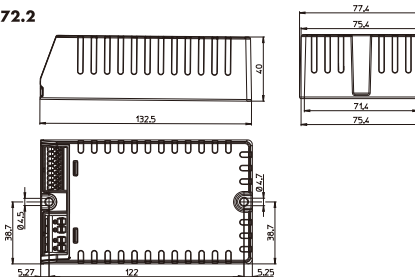
Electrical characteristics

Max. output W	Type	Ref. No.	Nominal input voltage range (50–60 Hz) V AC	Mains current mA	Inrush current A / μ s	Current output DC mA (\pm 5%)	Factory settings mA	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
26.6	ECXd 1050.639	187352	176–305	160	43 / 300	300–1050	700	20–38	4	88.5	\leq 3
40	ECXd 1050.640	187353	176–305	220	43 / 300	300–1050	700	28–57	3	90	\leq 3
60	ECXd 1050.659	187409	176–305	320	43 / 300	300–1050	700	30–86	3	90	\leq 3
80.5	ECXd 1050.641	187354	176–305	420	55 / 300	300–1050	700	35–115	3	91.5	\leq 3
120	ECXd 1050.642	187355	176–305	600	60 / 300	300–1050	700	75–172	3	93	\leq 3
165	ECXd 1050.660	187410	176–305	840	60 / 500	300–1050	700	115–236	3	94	\leq 3

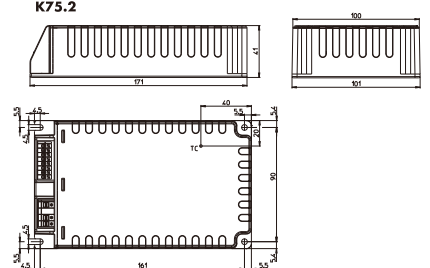
Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
187352	K72.2	132.5	77,4	40
187353				
187354				
187355				
187409				
187410	K75.2	171	101	41

K72.2



K75.2



ComfortLine Prog HP 1-10 V 12 V Aux IP

Functions

- Selectable current output via offline programming with the iProgrammer High Power Ref.No. 187551
- Programmable via USB interface
- Timing dimming function
- 12 V auxiliary power supply
- CLO

Electrical features

- Mains voltage: 200–480 V AC $\pm 10\%$
- Mains frequency: 50/60 Hz
- Pre-assembled connection leads:
 - Primary: 3x1 mm² (AWG17), length: 450 mm
 - Secondary: 2x1 mm² (AWG17), length: 250 mm
- Dimming/Programming/Aux Power supply: 4x0.35 mm² (AWG22), length: 220 mm
- Power factor range: 0.9–0.97
- Open circuit voltage (U_{out}): 450 V
- Secondary side switching of LED modules is not allowed.

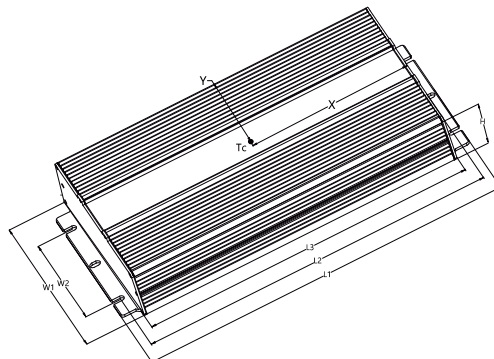


Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V $\pm 10\%$	Mains current. mA	Inrush current A / ms	Current output DC mA ($\pm 5\%$)	Factory settings mA	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
1000	ECXd 4160.717	187534	200–480	2500–6000	25 / 13	700–4160	2800	210–430	8	96.5	< 5

Dimensions

M98	Description	mm
Case length	L3	260
Case width	W1	125
Case height	H	44.5
Total length	L1	282
Mounting hole length	L2	271
Mounting hole width	W2	78
Tc point position	X	150
Tc point position	Y	45



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

ComfortLine Prog S 100 V 1-10 V IP

Product features

- Compact casing shape

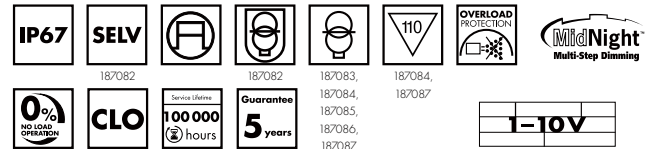
Functions

- Selectable current output via offline programming
- Programmable via USB interface
 - MidNight function
 - Constant Lumen Output (CLO)

Electrical features

- Mains voltage: 100–277 V ±10%
- Mains frequency: 50/60 Hz
- Pre-assembled connection leads: primary: 3x1 mm² (AWG17), length: 300 mm secondary: 2x1 mm² (AWG17), 1–10 V and programming: 2x0.35 mm² Power factor at full load: > 0.97 (AWG22), length: 300 mm
- Open circuit voltage (U_{max.}) / Max. working voltage (U_{OUT}):
- Secondary side switching of LED modules is not allowed.

Ref. No.	U _{max.} (V)	U _{OUT} (V)
187082	120	–
187083	–	170
187084	–	240
187085	–	300
187086	–	380
187087	–	480



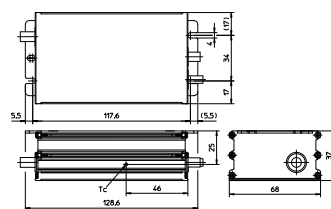
Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V ±10%	Mains current mA	Inrush current A / μs	Current output DC mA (± 5%)	Factory settings mA	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
75	ECXd 1050.446	187082	100–277	870–310	63 / 200	100–1050	700	40–108	7	90	< 10
105	ECXd 1050.447	187083	100–277	1220–430	52 / 276	100–1050	700	65–157	3	93.5	< 10
150	ECXd 1050.448	187084	100–277	1700–600	68 / 308	100–1050	700	100–214	3	94.5	< 10
200	ECXd 1050.449	187085	100–277	2300–820	86 / 336	100–1050	700	130–286	4	93.5	< 5
240	ECXd 1050.450	187086	100–277	2700–970	59 / 500	100–1050	700	115–349	4	94.5	< 5
320	ECXd 1100.451	187087	100–277	3650–1300	76 / 600	110–1100	700	220–457	7	93.5	< 10

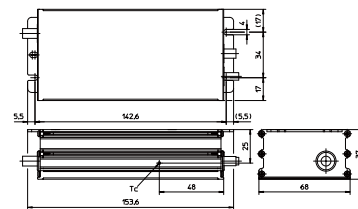
Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
187082	M87.1	128.6	68	37
187083	M88.1	153.6	68	37
187084	M89.1	173.6	68	37
187085	M90.1	193.6	68	39
187086	M91.1	208.6	68	39
187087	M92.1	231	98	42

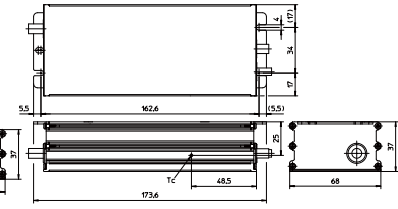
M87.1



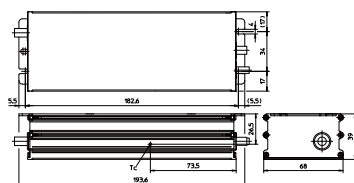
M88.1



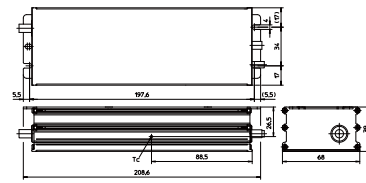
M89.1



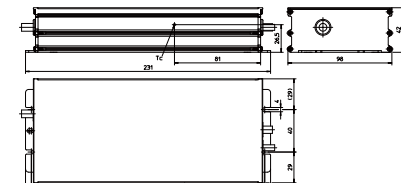
M90.1



M91.1



M92.1



ComfortLine Prog S-1-10V 100V IP 40W

Product features

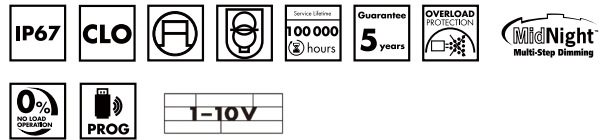
- Compact casing shape

Functions

- Selectable current output via offline programming
- Programmable via USB interface
 - MidNight function
 - Constant Lumen Output (CLO)

Electrical features

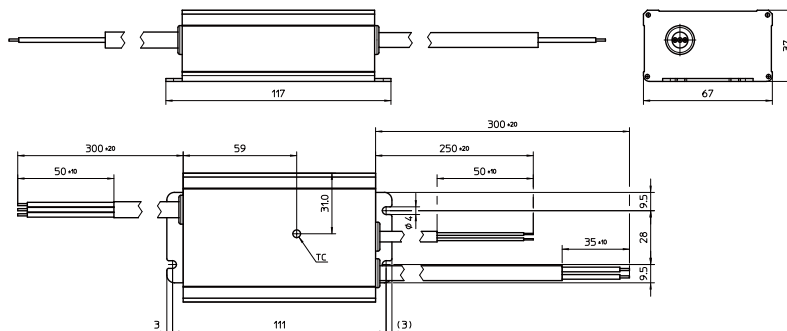
- Mains voltage: 100–277 V $\pm 10\%$
- Mains frequency: 50/60 Hz
- Pre-assembled connection leads:
 - primary: 3x1 mm² (AWG17), length: 300 mm
 - secondary: 2x1 mm² (AWG17), 1–10 V and programming: 2x0.35 mm² (AWG22), length: 250 mm
- Power factor at full load: > 0.96
- Open circuit voltage (U_{max}): 80 V
- Secondary side switching of LED modules is not allowed.



Ref. No	Max. output W	Type	Voltage 50–60 Hz V $\pm 10\%$	Mains current mA	Inrush current A / μ s	Current output DC mA ($\pm 5\%$)	Factory settings mA	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
187251	40	ECXd 1050.582	100–277	497–182	30 / 108	100–1050	700	28–57	5	85.5	< 7

Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
187251	M96	117	67	37



EasyLine Poti S 100 V IP

Product features

Compact casing shape

Functions

Selectable current output via potentiometer

Electrical features

Mains voltage: 100–277 V ±10%

Mains frequency: 50/60 Hz

Pre-assembled connection leads:

primary: 3x1 mm² (AWG17), length: 300 mm

secondary: 2x1 mm² (AWG17), length: 300 mm

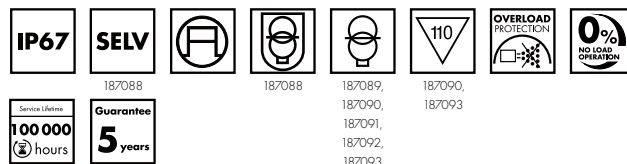
Power factor at full load: > 0.97

Open circuit voltage (U_{max.}) /

Max. working voltage (U_{out}):

Secondary side switching of LED modules is not allowed.

Ref. No.	U _{max.} (V)	U _{out} (V)
187088	120	–
187089	–	170
187090	–	240
187091	–	300
187092	–	350
187093	–	480



Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V ±10%	Mains current mA	Inrush current A / μs	Current output DC mA (± 5%)	Factory settings mA	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
75	ECXe 1050.452	187088	100–277	870–310	63 / 200	530–1050	700	40–108	7	90	< 10
105	ECXe 1050.453	187089	100–277	1220–430	52 / 276	530–1050	700	65–157	3	93,5	< 10
150	ECXe 1050.454	187090	100–277	1700–600	68 / 308	530–1050	700	100–214	3	94,5	< 10
200	ECXe 1050.455	187091	100–277	2300–820	86 / 336	530–1050	700	130–286	4	93,5	< 5
240	ECXe 1050.456	187092	100–277	2700–970	59 / 500	530–1050	700	115–349	4	94,5	< 5
320	ECXe 1100.457	187093	100–277	3650–1300	76 / 600	550–1100	700	220–457	7	93,5	< 10

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	–40	+60	5	95	–40	+85	5	95	+80 (t _c ,w _a)*; +90 (t _c ,s _a)*	IP67

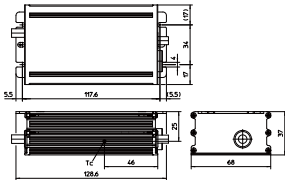
* t_c,w_a: (t_c,warranty) | t_c,s_a: (t_c,safety)

Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
187088	M87	128,6	68	37
187089	M88	153,6	68	37
187090	M89	173,6	68	37
187091	M90	193,6	68	39
187092	M91	208,6	68	39
187093	M92	231	98	42

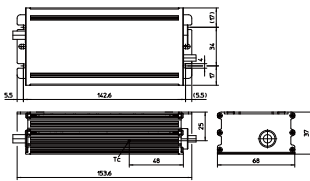
Product drawings and photos

M87



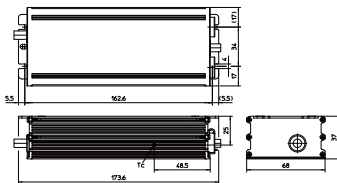
M87 - 187088

M88



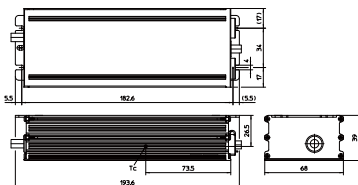
M88 - 187089

M89



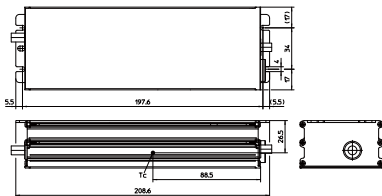
M89 - 187090

M90



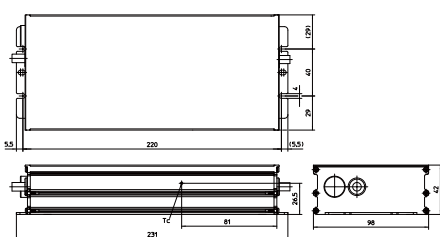
M90 - 187091

M91



M91 - 187092

M92



M92 - 187093

EasyLine DIP switch S-100 V IP

Product features

- Compact casing shape

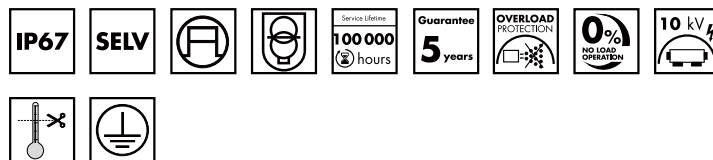
Functions

- Selectable current output via DIP switch

Electrical features

- Mains voltage: 100–240 V $\pm 10\%$
- Mains frequency: 50/60 Hz
- Pre-assembled connection leads:
 - primary: 3x1 mm² (AWG17), length: 300 mm
 - secondary: 2x1 mm² (AWG17), length: 300 mm
- Power factor at full load: > 0.95
- Open circuit voltage (U_{max.}):
- Secondary side switching of LED modules is not allowed.

Ref. No.	U _{max.} (V)
187242	60
187243	66
187244	65



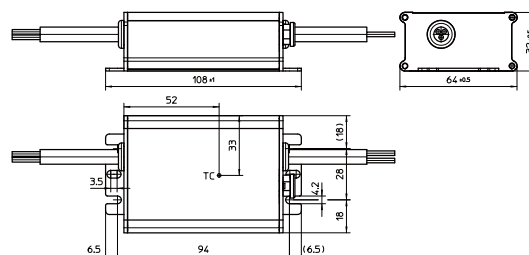
Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V $\pm 10\%$	Mains current mA	Inrush current A / μ s	Current output DC mA ($\pm 5\%$)	Factory settings mA	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
26	ECXe 700.573	187242	100–240	370–130	25 / 136	350–700	500	20–52	8	87	< 10
40	ECXe 1050.574	187243	100–240	580–190	41 / 200	350–1050	700	20–57	8	88	< 10
60	ECXe 1400.575	187244	100–240	820–280	45 / 225	900–1400	1050	20–57	9	90.5	< 10

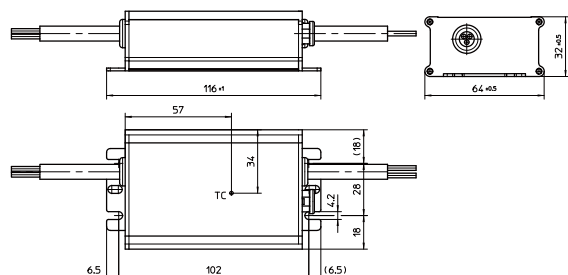
Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
187242	M94	108	64	32
187243	M97	116	64	32
187244	M95	140	64	32

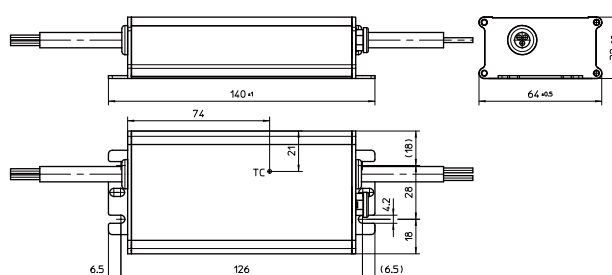
M94



M97




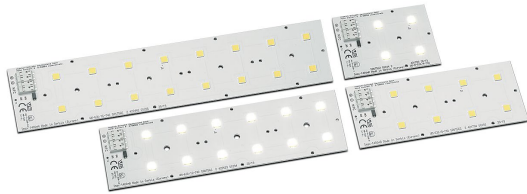
M95



LED Linear Allround 5050 Gen. 3

Technical Notes

- LED built-in module for integration into luminaires 
- 4, 8, 12 or 16 high-efficiency High Power LEDs
- Dimensions (excl. optics) LxWxH
 - 4 LEDs: 70.6x49.5x6 mm
 - 8 LEDs: 121.4x49.5x6 mm
 - 12 LEDs: 172.2x49.5x6 mm
 - 16 LEDs: 223x49.5x6 mm
- Push-in terminals for quick and simple wiring
- Suitable for 5050-optimized 2x2 optics made by VS
- Design for optimum thermal management
- Degree of protection: IP00
- ESD protection class 3 (up to 8 kV)
- NTC resistor for external driver feedback of module temperature (type: NCP18xH103J03RB)



Electrical Characteristics

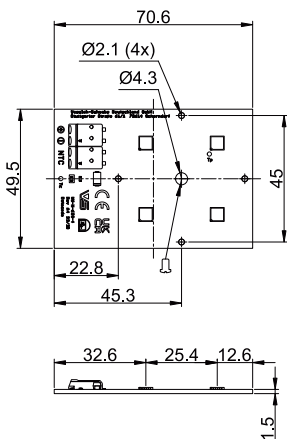
at $t_p = 60^\circ\text{C}$

	No. of LEDs	Typ. voltage DC					Temperature coefficient mV/K	Typ. power consumption			
		350 mA V	500 mA V	700 mA V	1050 mA V	1400 mA V		350 mA W	500 mA W	700 mA W	1050 mA W
WU-M-630-SA/4	4	10.9	11.1	11.3	11.8	12.2	-3.17	3.8	5.5	7.9	12.4
WU-M-630-SA/8	8	21.8	22.2	22.7	23.5	24.3	-6.33	7.6	11.1	15.9	24.7
WU-M-630SA/12	12	32.7	33.3	34.0	35.3	36.5	-9.50	11.4	16.6	23.8	37.1
WU-M-630-SA/16	16	43.6	44.4	45.4	47.1	48.6	-12.66	15.3	22.2	31.8	49.4

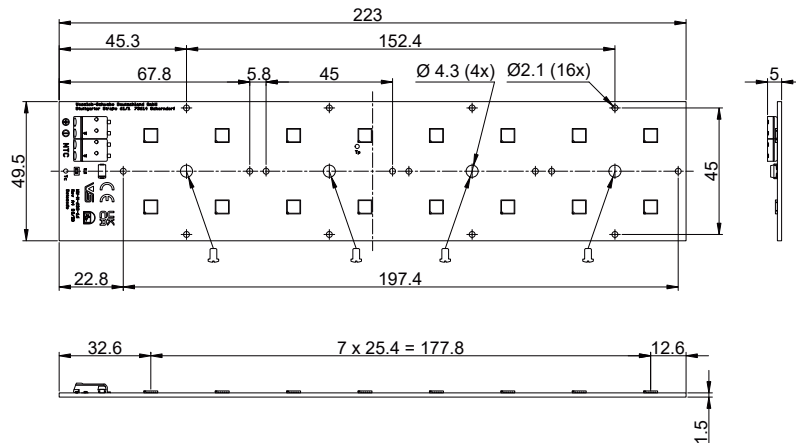
Voltage and power consumption tolerance: $\pm 10\%$. Use of external LED constant current driver required.

Mechanical Dimensions

WU-M-630-SA/4



WU-M-630-SA/16



Optical Characteristics

at $t_p = 60\text{ }^\circ\text{C}$, $\text{CRI}^{**} \geq 70$

Type	Ref. No.	Colour	Correl. colour temp. K	Luminous flux* (lm) and typ. efficiency (lm/W)									
				350 mA		500 mA		700 mA		1050 mA		1400 mA	
				typ. lm	typ. lm/W	typ. lm	typ. lm/W	typ. lm	typ. lm/W	typ. lm	typ. lm/W	typ. lm	typ. lm/W
WU-M-630-SA/4-722	573280	warm white	2200	700	184	980	176	1330	168	1915	155	2455	144
WU-M-630-SA/4-730	573125	warm white	3000	795	208	1105	199	1505	189	2160	175	2770	163
WU-M-630-SA/4-740	573126	neutral white	4000	825	217	1150	208	1565	197	2255	182	2890	170
WU-M-630-SA/4-750	573219	cool white	5000	815	214	1135	205	1545	195	2225	180	2850	168
WU-M-630-SA/8-722	573215	warm white	2200	1405	184	1955	176	2660	168	3830	155	4910	144
WU-M-630-SA/8-727	573128	warm white	2700	1540	202	2145	193	2920	184	4200	170	5385	158
WU-M-630-SA/8-730	573129	warm white	3000	1585	208	2210	199	3005	189	4320	175	5545	163
WU-M-630-SA/8-740	573130	neutral white	4000	1655	217	2305	208	3135	197	4510	182	5785	170
WU-M-630-SA/8-750	573220	cool white	5000	1630	214	2270	205	3090	195	4445	180	5705	168
WU-M-630-SA/12-722	573216	warm white	2200	2105	184	2935	176	3995	168	5745	155	7365	144
WU-M-630-SA/12-727	573132	warm white	2700	2310	202	3215	193	4380	184	6300	170	8080	158
WU-M-630-SA/12-730	573133	warm white	3000	2380	208	3310	199	4510	189	6485	175	8315	163
WU-M-630-SA/12-740	573134	neutral white	4000	2480	217	3455	208	4700	197	6760	182	8675	170
WU-M-630-SA/12-750	573221	cool white	5000	2445	214	3405	205	4635	195	6670	180	8555	168
WU-M-630-SA/16-722	573217	warm white	2200	2810	184	3910	176	5325	168	7655	155	9820	144
WU-M-630-SA/16-727	573136	warm white	2700	3080	202	4290	193	5840	184	8400	170	10775	158
WU-M-630-SA/16-730	573137	warm white	3000	3170	208	4415	199	6010	189	8645	175	11090	163
WU-M-630-SA/16-740	573138	neutral white	4000	3310	217	4605	208	6270	197	9015	182	11565	170
WU-M-630-SA/16-750	573222	cool white	5000	3265	214	4540	205	6185	195	8890	180	11405	168

On account of the complex manufacturing process of the modules, the above values only represent statistical variables.

The values do not necessarily correspond exactly to the actual parameters of every single product, which can vary from the typical specification.

* Measurement tolerance of luminous flux: $\pm 7\%$ | ** Measurement tolerance CRI: ± 2

Optical Characteristics

at $t_p = 60\text{ }^\circ\text{C}$, $\text{CRI}^{**} \geq 80$

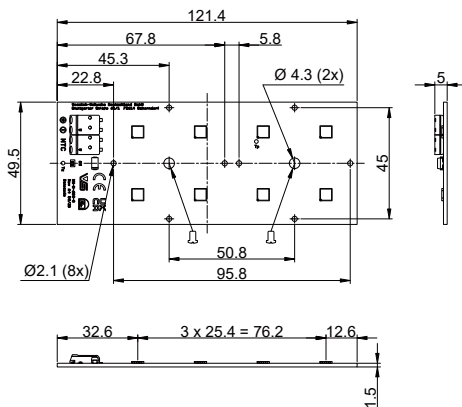
Type	Ref. No.	Colour	Correl. colour temp. K	Luminous flux* (lm) and typ. efficiency (lm/W)									
				350 mA		500 mA		700 mA		1050 mA		1400 mA	
				typ. lm	typ. lm/W	typ. lm	typ. lm/W	typ. lm	typ. lm/W	typ. lm	typ. lm/W	typ. lm	typ. lm/W
WU-M-630-SA/4-830	on request	warm white	3000	700	184	980	176	1330	168	1915	155	2455	144
WU-M-630-SA/4-840	573127	neutral white	4000	750	196	1040	188	1415	178	2040	165	2615	154
WU-M-630-SA/8-830	on request	warm white	3000	1405	184	1955	176	2660	168	3830	155	4910	144
WU-M-630-SA/8-840	573131	neutral white	4000	1495	196	2080	188	2835	178	4075	165	5230	154
WU-M-630-SA/12-830	on request	warm white	3000	2105	184	2935	176	3995	168	5745	155	7365	144
WU-M-630-SA/12-840	573135	neutral white	4000	2245	196	3125	188	4250	178	6115	165	7840	154
WU-M-630-SA/16-830	on request	warm white	3000	2810	184	3910	176	5325	168	7655	155	9820	144
WU-M-630-SA/16-840	573139	neutral white	4000	2990	196	4165	188	5670	178	8150	165	10455	154

On account of the complex manufacturing process of the modules, the above values only represent statistical variables.

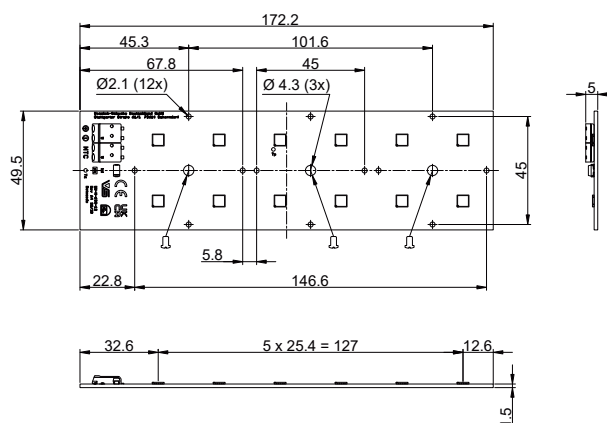
The values do not necessarily correspond exactly to the actual parameters of every single product, which can vary from the typical specification.

* Measurement tolerance of luminous flux: $\pm 7\%$ | ** Measurement tolerance CRI: ± 2

WU-M-630-SA/8



WU-M-630-SA/12



All holes $\text{Ø} 2.1$ mm are fixing holes for optics. | All holes $\text{Ø} 4.3$ mm are fixing holes for PCB.

2x2 Streetlight Compact Optics for SMD W5 - 5050

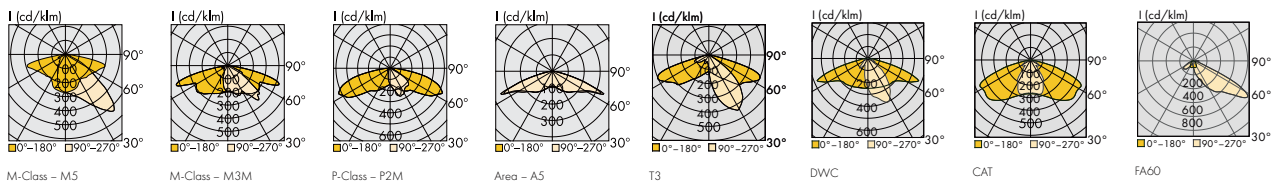
Technical Notes for Optics

- Highly efficient up to 96%
- Material: PMMA
- Dimensions (LxW): 50x50 mm
- Temperature operating range PMMA: - 40 °C to 80 °C
- Temperature operating range PMMA HT: - 40 °C to 90 °C
- Fixing hole for M3/M4 screw
- Max. torque on screws
M3: 0.5 Nm; M4: 1.4 Nm

Light distribution	Optics type	Ref.No.	Material	Efficiency %	Weight g	Packaging unit
M5	95535	570137	PMMA HT	93	11.4	544
M3M	95536	569966	PMMA HT	92	9.6	544
P2M	95537	569967	PMMA HT	93	11.6	544
A5	95538	569968	PMMA HT	94	8.1	544
T3	95521	573244	PMMA	93	8.5	560
DWC	95522	573245	PMMA	93	11.4	560
CAT	95534	573282	PMMA	96	6.7	560
FA60	95509	573165	PMMA	93	13.2	560



Light Distribution Curves



M-Class - M5

M-Class - M3M

P-Class - P2M

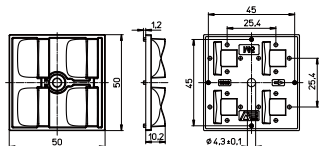
Area - A5

T3

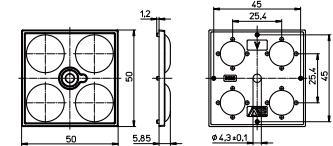
DWC

CAT

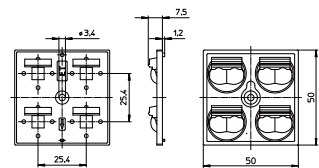
FA60



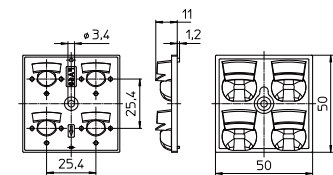
M-Class - M5



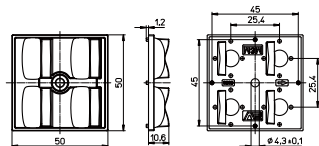
Area - A5



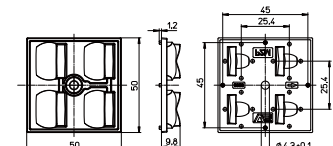
95521 - T3



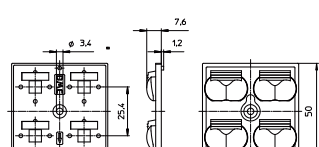
95509 - FA60



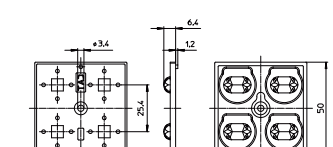
M-Class - M3M



P-Class - P2M



95522 - DWC



95534 - CAT

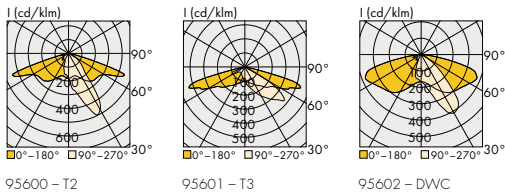
Compact optics 2x6 for SMD W4.5 – 3535

Technical Notes for Optics

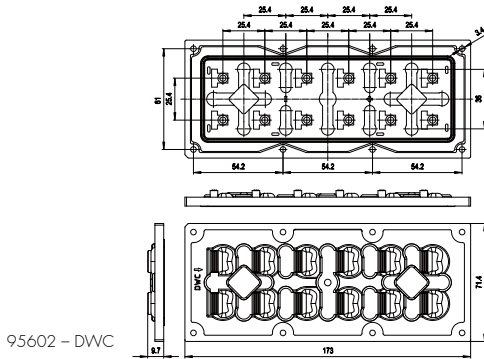
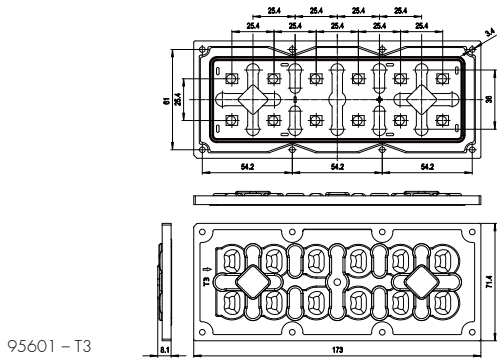
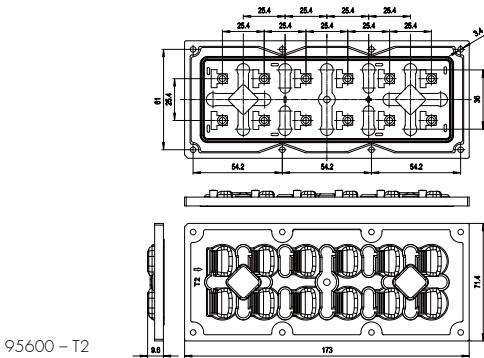
- Material: PMMA
- Dimensions (LxWxH): 173x71 mm
- Max. allowed temperature: 80 °C
- Fixing hole for M3
- Max. torque on screws M3: 0.5 Nm
- Protection class: IP67 (incl. silicone seal)



Light distribution	Optics type	Ref. No.	Efficiency %	Weight g	Packaging unit
T2	95600	572276	93	54.2	140
T3	95601	572195	93	47.6	140
DWC	95602	572277	93	52.4	140



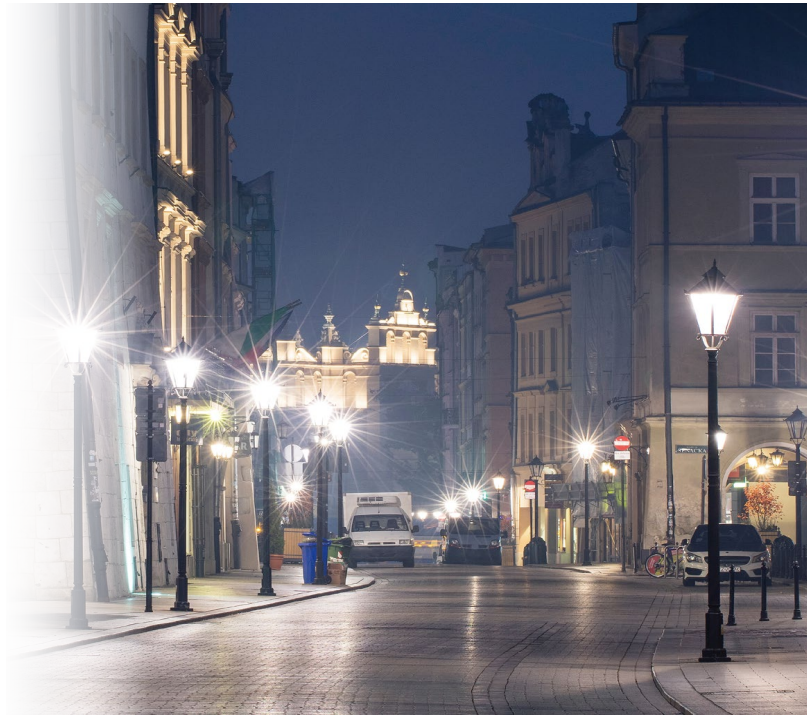
Mechanical Dimensions



SPD SP3/277/10K IP67 INLINE

Product features

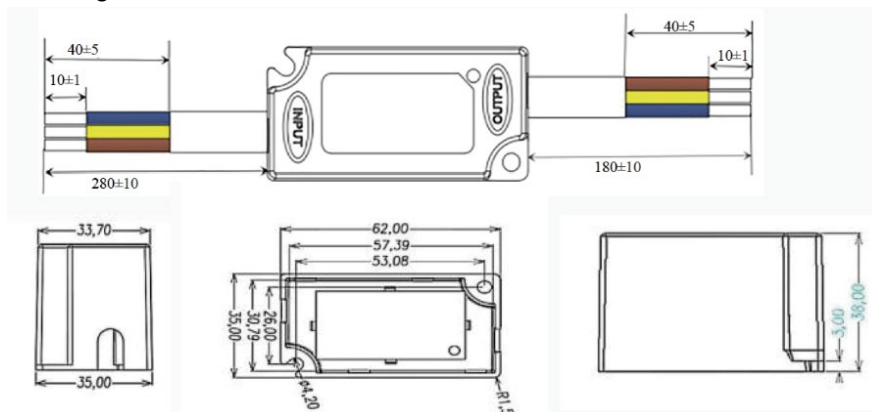
- Luminaire protection device for use in safety class I applications
- Fully sealed
- Protection degree: IP67
- For inline connection, parallel SPD
- Cable H05RN-F 3G 1.0mm²



Technical Data

Technical Specifications		142815
Nominal voltage	U_n	100-277V +/-10%
Max. operating voltage	U_c	350 Vac
Nominal frequency	f_n	50-60 Hz
AC-system		TN
Max. load current	I_L	5 A
Voltage	U	10.000 V
Max. discharge current	A	10.000
Nominal discharge current	A	5.000
Voltage protection level L-N	$U(L-N)$	< 1.500 V
Voltage protection level L-PE	$U(L-PE)$	< 1.500 V
Protection degree		IP67
Permitted casing temperature	t_c	-35...85 °C
Disconnectors		
Thermal disconnector		Internal
External fuse		
Function indicator (LED)		Yes
Type		T2 + T3
Complies to		EN 61643-11:2012+A11:2018
Weight	g	122

Drawing



EasyLine 12 V C-L

Product features

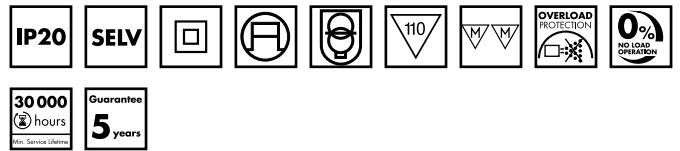
- Linear casing shape
- For use in applications with medium and high capacity range from 60 to 100 W

Electrical features

- Mains voltage: 220–240 V $\pm 10\%$
- Mains frequency: 50–60 Hz
- Screw terminals: 0.75–1.5 mm²
- Power factor at full load: > 0.9 C
(0.55C for 20W 187460)

Safety features

- Protection against transient main peaks
- Electronic short-circuit protection
- Overload protection: reversible
- Protection against "no load" operation
- Degree of protection: IP20
- Protection class II
- SELV

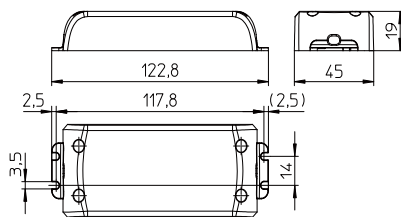


Electrical characteristics

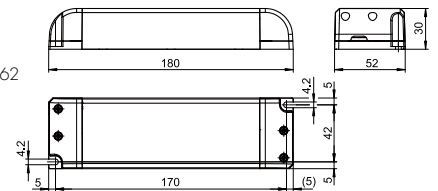
Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA ($\pm 5\%$)	Voltage output V ($\pm 5\%$)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
20	EDXe 120/12.095	187460	220–240	270–190	186 / 11	0–1670	12	n.a.	> 86	≤ 5
60	EDXe 160/12.096	187461	220–240	330–290	27 / 450	0–5000	12	< 11	> 88	≤ 5
75	EDXe 175/12.097	187462	220–240	390–355	29 / 250	0–6250	12	< 8	> 90	≤ 5
100	EDXe 1100/12.098	187463	220–240	550–430	38 / 350	0–8300	12	< 7	> 90	≤ 5

Dimensions

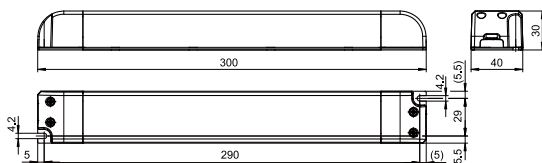
- Casing: K52
- Ref. No.: 187460
- Length: 122.8 mm
- Width: 45 mm
- Height: 19 mm



- Casing: K55.1
- Ref. No.: 187461, 187462
- Length: 180 mm
- Width: 52 mm
- Height: 30 mm



- Casing: K60
- Ref. No.: 187463
- Length: 300 mm
- Width: 40 mm
- Height: 30 mm



EasyLine 24 V C-L Gen.2

Product features

- Compact casing shape
- For use in applications with medium and high capacity range of up to 30, 60, 75, 120 and 180 W

Electrical features

- Mains voltage: 220–240 V ±10%
- Mains frequency: 50–60 Hz
- Screw terminals: 0.75–1.5 mm² or 0.5–2.5 mm² (187004)
- Power factor at full load: > 0.95 C

Safety features

- Protection against transient main peaks
- Electronic short-circuit protection
- Overload protection: reversible
- Protection against "no load" operation
- Degree of protection: IP20
- Protection class II
- SELV
- SVM: < 0.4
- PstLM: < 1



Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μs	Current output DC mA (± 5%)	Voltage output DC V (± 5%)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
30	EDXe 130/24.090	187000	220–240	160–145	16 / 264	0–1250	24	8	88	≤ 3
60	EDXe 160/24.091	187001	220–240	310–280	27 / 300	0–2500	24	8	89	≤ 3
75	EDXe 175/24.092	187002	220–240	390–355	29 / 250	0–3125	24	7	90	≤ 3
120	EDXe 1120/24.093	187003	220–240	602–530	38/365	0–5000	24	6	93	≤ 3
180	EDXe 1180/24.094	187004	220–240	900–800	28 / 137	0–7500	24	6	94	≤ 3

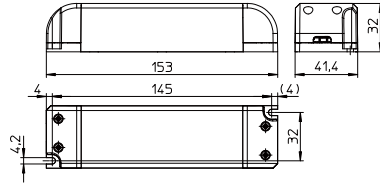
Maximum ratings

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

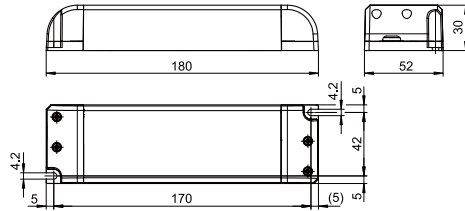
Ref. No.	Ambient temperature range °C min. °C max.		Operation humidity range % min. % max.		Storage temperature range °C min. °C max.		Storage humidity range % min. % max.		Max. operation temperature at t _c point °C	Degree of protection
	°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.		
187000	-20	+45	20	90	-40	+80	10	90	+80	IP20
187001	-20	+45							+85	
187002	-20	+45							+85	
187003	-20	+45							+85	
187004	-20	+50							+85	

Dimensions

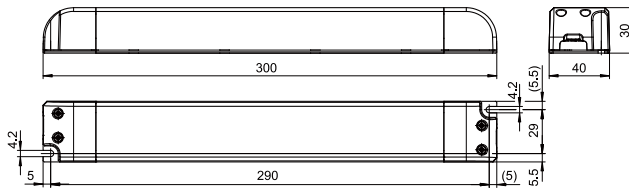
- Casing: K53
- Ref. No.: 187000
- Length: 153 mm
- Width: 41 mm
- Height: 32 mm



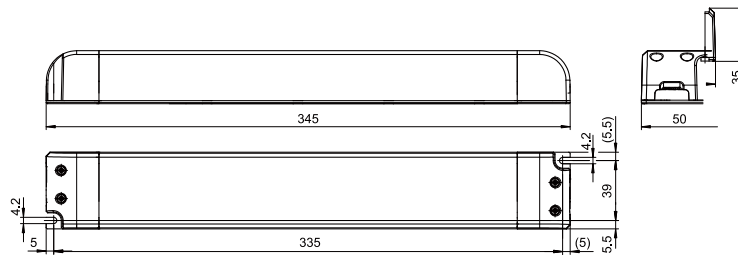
- Casing: K55.1
- Ref. No.: 187001, 187002
- Length: 180 mm
- Width: 52 mm
- Height: 30 mm



- Casing: K60
- Ref. No.: 187003
- Length: 300 mm
- Width: 40 mm
- Height: 30 mm



- Casing: K61
- Ref. No.: 187004
- Length: 345 mm
- Width: 50 mm
- Height: 35 mm



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

EasyLine 24 V L-S

Product features

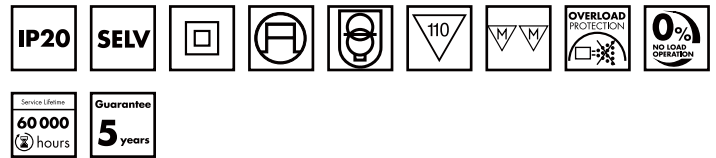
- Slim and flat casing design
- For use in applications with medium and high capacity range of up to 30, 60, 100, 150 and 240 W

Electrical features

- Mains voltage: 220–240 V ±10%
- Mains frequency: 50–60 Hz
- Screw terminals:
Input terminal: 0.75–1.5 mm² (All types)
Output terminal: 0.5–1.5 mm
0.75–2.5 mm² (150/240W)
- Power factor at full load: > 0.95 C

Safety features

- Electronic short-circuit protection
- Overload protection: reversible
- Protection against "no load" operation
- Overtemperature protection
- Degree of protection: IP20
- Protection class II
- SELV
- SVM: < 0.4
- PstLM: < 1

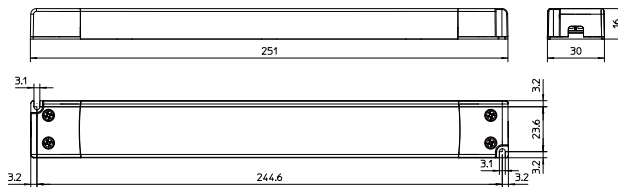


Electrical characteristics

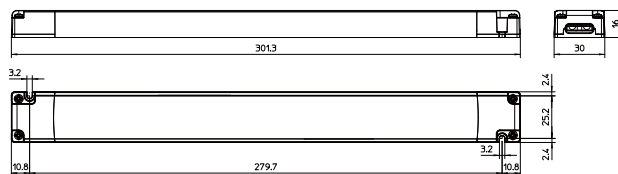
Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μs	Current output DC mA (± 5%)	Voltage output DC V (± 5%)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
30	EDXe 130/24.109	187609	220–240	162–148	30 / 160	0–1250	24	5	86	≤ 2
60	EDXe 160/24.110	187610	220–240	309–285	30 / 365	0–2500	24	9	90	≤ 2
100	EDXe 1100/24.111	187611	220–240	307–277	65 / 220	0–4170	24	8	93	≤ 2
150	EDXe 1150/24.112	187612	220–240	734–673	80 / 240	0–6250	24	4	94	≤ 2
240	EDXe 1240/24.113	187613	220–240	1156–1059	80 / 400	0–10000	24	3	95	≤ 1

Dimensions

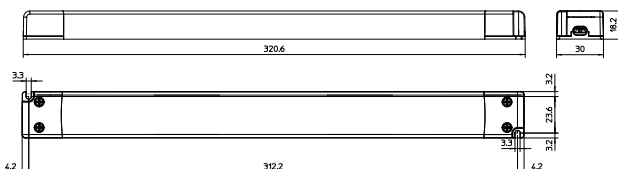
- Casing: K117
- Ref. No.: 187609, 187610, 187611
- Length: 251 mm
- Width: 30 mm
- Height: 16 mm



- Casing: K118
- Ref. No.: 187612
- Length: 301 mm
- Width: 30 mm
- Height: 16 mm



- Casing: K119
- Ref. No.: 187613
- Length: 321 mm
- Width: 30 mm
- Height: 18 mm



EasyLine 24 V IP Gen.2

Product features

- Compact casing shape IP67
- For use in applications in a power range of 35W, 60W, 100W, 150W, 200W, 240W, 320W

Electrical features

- Mains voltage: 220–240 V ±10%
- Mains frequency: 50–60 Hz
- Pre-assembled connection leads
- Power factor at full load: 0.95
- SVM: < 0.4
- PstLM: < 1

Safety features

- Protection against transient main peaks
- Electronic short-circuit protection
- Overload protection: reversible
- Protection against "no load" operation
- Degree of protection: IP67
- Protection class II (plastic casing), protection class I (metal casing)
- SELV



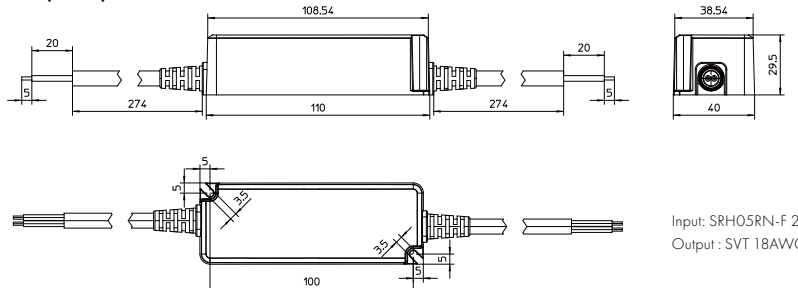
Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA	Voltage output DC (V) (\pm 5%)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
35	EDXe 135/24.102	187553	220–240	180–170	22 / 180	0–1450	24	6	86	\leq 3
60	EDXe 160/24.103	187554	220–240	310–290	40 / 194	0–2500	24	6	87	\leq 3
100	EDXe 1100/24.104	187555	220–240	500–460	44 / 262	0–4170	24	11	91	\leq 3
150	EDXE 1150/24.105	187556	220–240	740–680	66 / 22	0–6250	24	10	92	\leq 3
200	EDXe 1200/24.106	187557	220–240	970–890	60 / 365	0–8333	24	8	93	\leq 3
240	EDXe 1240/24.107	187558	220–240	1180–1080	66 / 430	0–10000	24	9	93	\leq 3
320	EDXe 1320/24.108	187559	220–240	1560–1430	85 / 382	0–13333	24	7	93	\leq 3

Dimensions

Ref. No.	Casing	Material	Length mm	Width mm	Height mm
187553	K112	plastic	110,0	40,0	29,5
187554	K113	plastic	155,5	41,5	30,0
187555	K114	plastic	155,5	47,6	32,5
187556		plastic	155,5	47,6	32,5
187557	M99	metal	220,3	62,5	38,0
187558	M100	metal	220,0	62,5	41,3
187559	M101	metal	261,3	62,5	41,3

K112 (Plastic)



Input: SRH05RN-F 2*1.0mm2
Output: SVT 18AWG*2C

EasyLine 24 V C-L 120 V

Product features

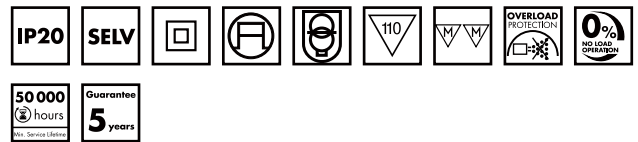
- Compact casing shape
- For use in applications with medium and high capacity range of up to 20, 40, 60 and 100 W

Electrical features

- Mains voltage: 120–277 V $\pm 10\%$
- Mains frequency: 50–60 Hz
- Screw terminals: primary 0.75–2.5 mm², secondary 0.5–2.5 mm²
- Power factor at full load: > 0.98 C

Safety features

- Protection against transient main peaks
- Electronic short-circuit protection
- Overload protection: reversible
- Protection against "no load" operation
- Degree of protection: IP20
- Protection class II
- SELV



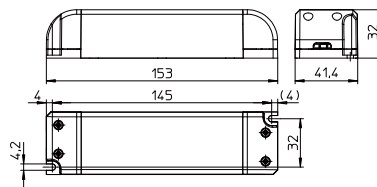
Electrical characteristics

Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA ($\pm 5\%$)	Voltage output DC V ($\pm 5\%$)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
20	EDXe 120/24.075	187036	120–277	224–80	12 / 190	0–833	24	< 6	> 87	≤ 3
40	EDXe 140/24.076	187037	120–277	435–160	11 / 298	0–1670	24	< 8	> 87	≤ 3
60	EDXe 160/24.077	187038	120–277	635–230	13 / 285	0–2500	24	< 7	> 88	≤ 3
100	EDXe 1100/24.078	187039	120–277	930–365	24 / 698	0–4000	24	< 6	> 88	≤ 3

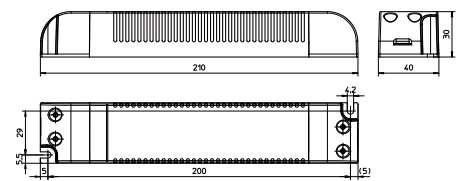
Dimensions

Ref. No.	Casing	Length a mm	Width b mm	Height c mm
187036	K53	153	41	32
187037	K81	210	40	30
187038	K82	250	40	30
187039	K83	310	40	36

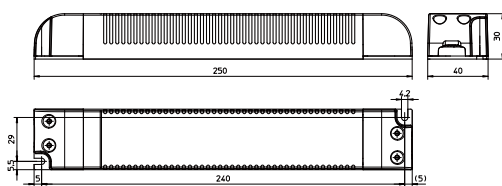
K53



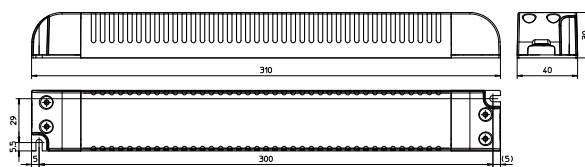
K81



K82



K83



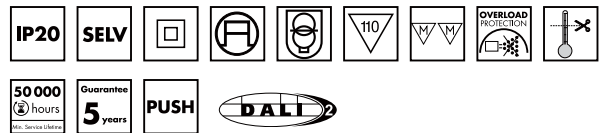
ComfortLine 24 V L DALI2

Product Feature

- Compact casing shape
- For use in applications with medium and high capacity range of up to 45, 80, 150 and 250W)

Electrical features

- Mains voltage: 220–240 V ±10%
- Mains frequency: 50–60 Hz
- Plug-in terminals: 0.5–1.5 mm²
1–2.5 mm² for 250W output
- Power factor at full load: > 0.95 C
- SVM: < 0.4
- PstLM: < 1

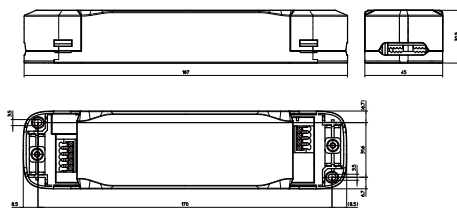


Electrical characteristics

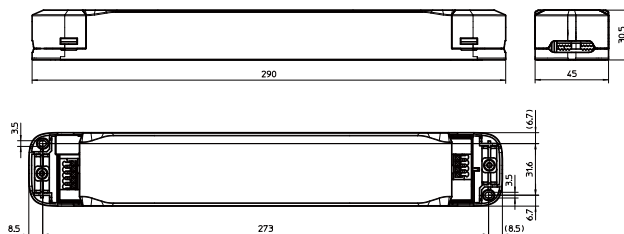
Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA	Voltage output DC V (\pm 5%)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
45	EDXd 145/24.085	187361	220–240	236–217	18 / 240	0–1875	24	< 8	> 86	\leq 1
80	EDXd 180/24.086	187362	220–240	411–377	37 / 264	0–3333	24	< 7	> 88	\leq 1
150	EDXd 1150/24.087	187363	220–240	741–681	45 / 432	0–6250	24	< 7	> 92	\leq 1
250	EDXd 1250/24.088	187430	220–240	1240–1139	47/640	0–10416	24	< 4	> 93	\leq 1

Dimensions

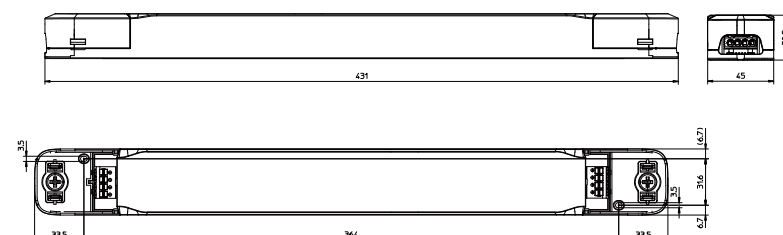
- Casing: K101
- Ref. No.: 187361
- Length: 187 mm
- Width: 45 mm
- Height: 31 mm



- Casing: K102
- Ref. No.: 187362, 187363
- Length: 290 mm
- Width: 45 mm
- Height: 31 mm



- Casing: K105
- Ref. No.: 187430
- Length: 431 mm
- Width: 45 mm
- Height: 31 mm



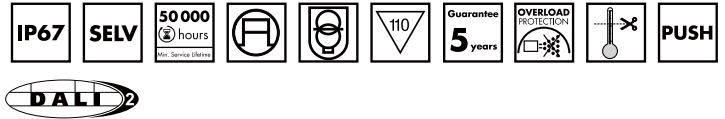
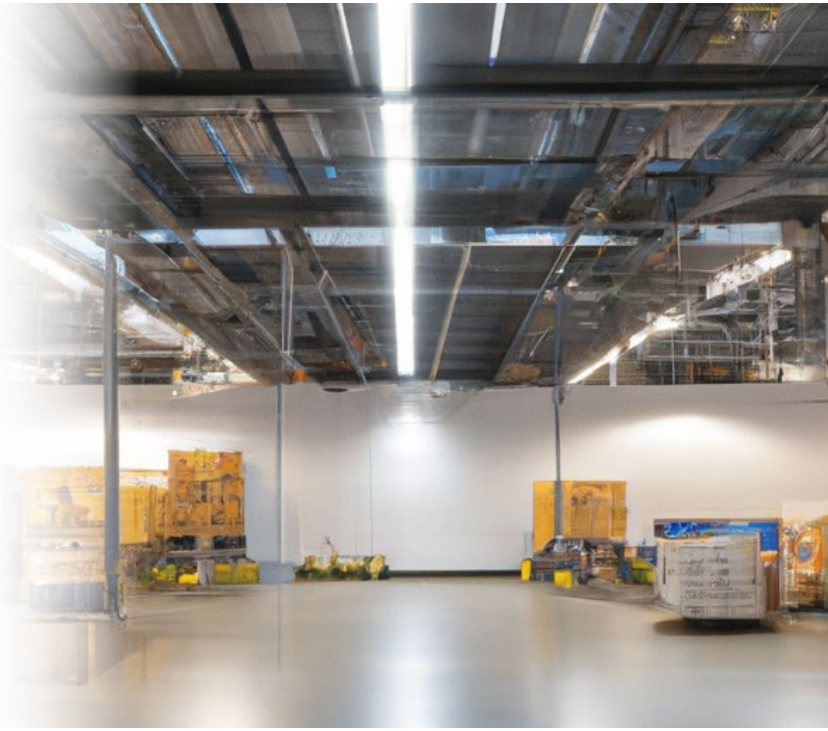
ComfortLine 24 V DALI2 IP67

Product features

- Compact casing shape IP67
- For use in applications in a power range of 45W, 80W, 150W

Electrical features

- Mains voltage: 220–240 V ±10%
- Mains frequency: 50–60 Hz
- Power factor at full load: > 0.95
- SVM: < 0.4
- PsiLM: < 1

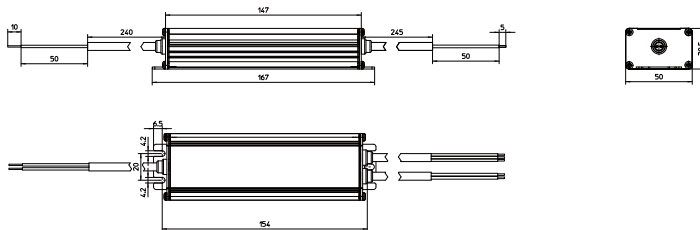


Electrical characteristics

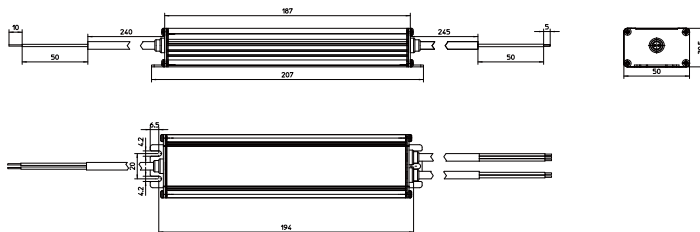
Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA	Voltage output DC V (\pm 5%)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
45	EDXd 145/24.099	187507	220–240	236–218	20 / 261	0–1881	24	< 12	> 88	\leq 1
80	EDXd 180/24.100	187508	220–240	409–375	32 / 256	0–3334	24	< 9	> 89	\leq 1
150	EDXd 1150/24.101	187509	220–240	762–218	48 / 406	0–6253	24	< 6	> 90	\leq 1

Dimensions

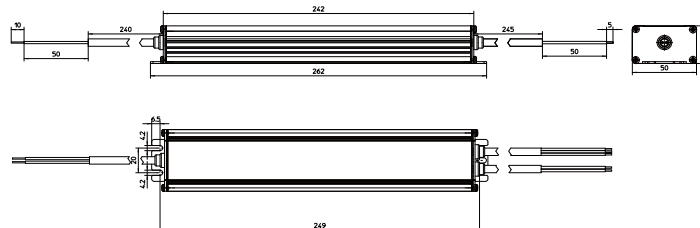
- Casing: M102
- Ref. No.: 187507
- Length: 167 mm
- Width: 50 mm
- Height: 30.5 mm



- Casing: M103
- Ref. No.: 187508
- Length: 207 mm
- Width: 50 mm
- Height: 30.5 mm



- Casing: M104
- Ref. No.: 187509
- Length: 262 mm
- Width: 50 mm
- Height: 30.5 mm



EasyLine 48V C-L

Product features

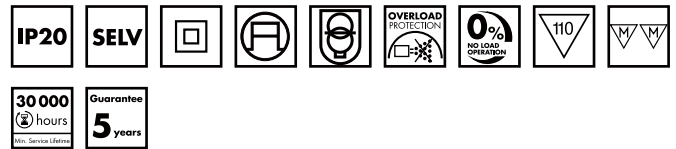
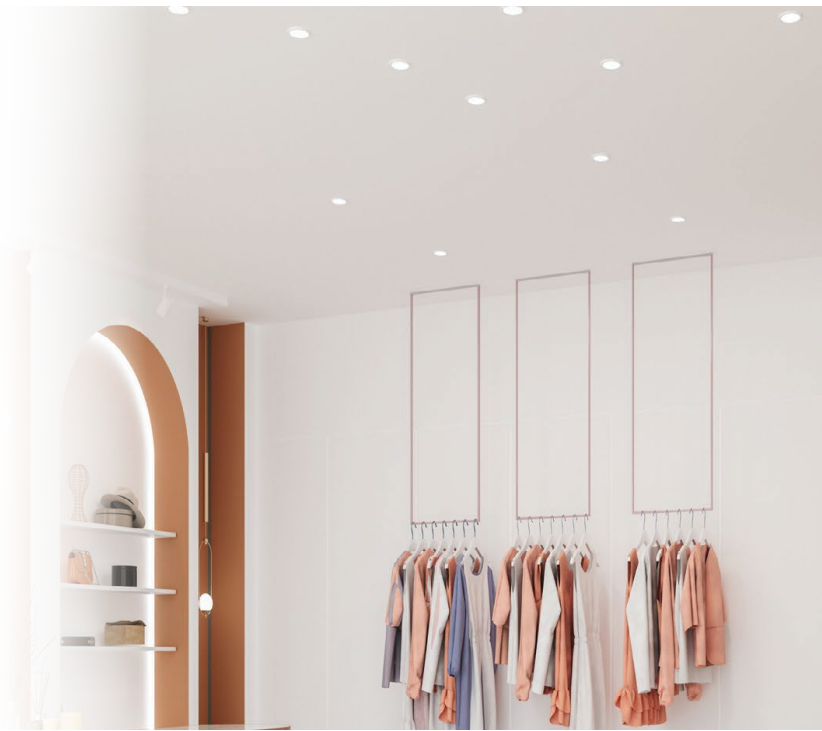
- Compact casing shape
- For use in applications with medium and high capacity range of up to 75 W and 120 W

Electrical features

- Mains voltage: 220–240 V $\pm 10\%$
- Mains frequency: 50–60 Hz
- Screw terminals: 0.5–2.5 mm²
- Power factor at full load: 0.95

Safety features

- Protection against transient main peaks
- Electronic short-circuit protection
- Overload protection
- Protection against "no load" operation
- Degree of protection: IP20
- Protection class II
- SELV

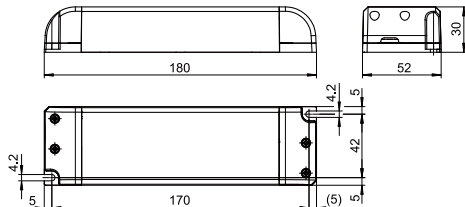


Electrical characteristics

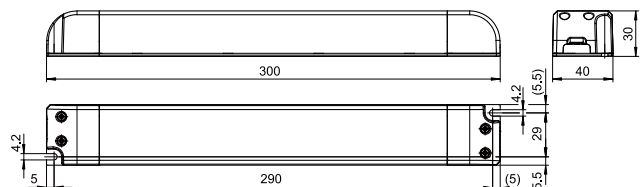
Max. output W	Type	Ref. No.	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA ($\pm 5\%$)	Voltage output DC (V)	THD %	Efficiency at full load % (230 V)	Ripple 100 Hz %
75	EDXe 175/48.068	186691	220–240	380–350	37 / 220	0–1563	48	6	90	< 1
120	EDXe 1120/48.069	186692	220–240	600–550	48 / 170	0–2500	48	10	91	< 3

Dimensions

- Casing shape: K55.1
- Ref. No.: 186691
- Length: 180 mm
- Width: 52 mm
- Height: 30 mm



- Casing shape: K60
- Ref. No.: 186692
- Length: 300 mm
- Width: 40 mm
- Height: 30 mm



WE THINK LIGHT FOR YOU

Vossloh-Schwabe Deutschland GmbH

Stuttgarter Straße 61/1 · 73614 Schorndorf
Phone +49 (0)7181 8002-0

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