

ASTARES L-series

LED line
Slim design
Low lumen packages

Single white
SELV/non-SELV operation



exemplary image

Performance characteristics

- Linear LED modules for application in linear and area lighting
- Slim design with 24 mm width for space-saving mounting in luminaires
- Very high efficiency of up to 193 lm/W
- Very low tolerance in color temperature of 3 SDCM
- Color rendering of CRI > 80 for use in all common applications
- Easy electrical connection via push-in terminals with release option
- Easy installation by means of screw fastening
- Suitable for use in SELV and non-SELV applications
- Matrix-topology to avoid bigger dark zones in case of single LED failures
- Conformity with standards
 - EN 62031 Safety specifications
 - EN 62471 Photobiological safety

General technical data

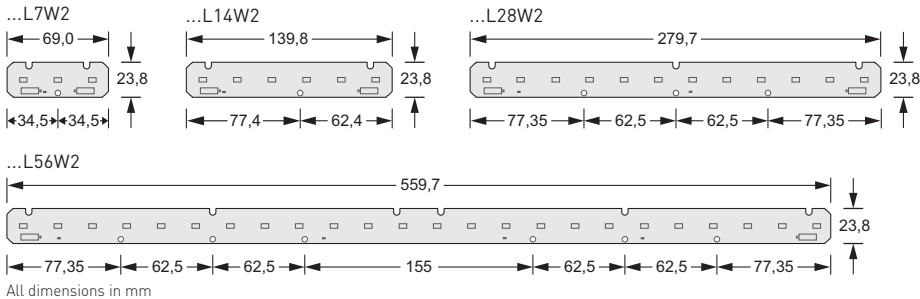
Photometrical data	
Colour consistency initial	3 SDCM
after 10.000 h	4 SDCM
Light distribution	120° (FWHM) lambertian
Tolerance of luminous flux	± 7.5 % at $t_p = 65\text{ °C}$
Photobiological safety	Class 1
Electrical operating data	
Operating mode	Constant current
Admissible operating current	≤ 450 mA
Creepage and clearance distances designed for voltages	max. 300 VDC
Tolerance of operating voltage	± 5 % at $t_c = t_p$
Installation notes	
Type of mounting	M4 screws
Use of add. plastic washer	yes, if ECG U-OUT > 250 V
Torque (tapped thread)	0.4 ... 0.8 Nm
Type of connector	Push-in terminal with release option
Wire cross section	0.2 ... 0.75 mm ²
Wire stripping length	8 mm
Temperatures	
Performance temperature t_p	65 °C
Max. admissible operating temperature $t_{c,max.}$	75 °C
Lifetime	
L80B50 at $t_c = t_p = 65\text{ °C}$	60,000 h
L70B50 at $t_c = t_{c,max.} = 75\text{ °C}$	60,000 h

Operating data

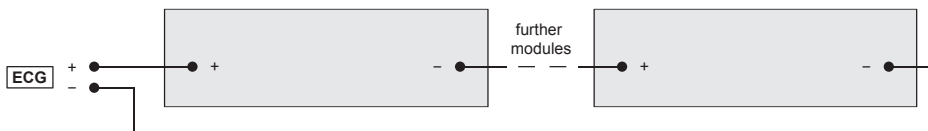
Designation	Order number	Operating mode	Luminous flux	Colour temperature	Colour rendering	Rated operating current	Operating voltage	Power	Efficiency
			lm	K	CRI	mA	VDC	W	lm/W
LMC-AS/L-015-830-20/L7W2	10174558	max.	200	3.000	>80	450	3,0	1,4	148
		nom.	150			315	2,9	0,9	163
		½ nom.	75			150	2,8	0,4	183
LMC-AS/L-015-840-20/L7W2	10174559	max.	210	4.000	>80	450	3,0	1,4	155
		nom.	150			305	2,9	0,9	168
		½ nom.	75			145	2,8	0,4	188
LMC-AS/L-030-830-20/L14W2	10144836	max.	400	3.000	>80	450	6,0	2,7	148
		nom.	250			290	5,7	1,5	168
		½ nom.	125			135	5,5	0,7	185
LMC-AS/L-030-840-20/L14W2	10144837	max.	420	4.000	>80	450	6,0	2,7	155
		nom.	250			275	5,7	1,4	175
		½ nom.	125			130	5,5	0,7	193
LMC-AS/L-060-830-20/L28W2	10144838	max.	805	3.000	>80	450	12,1	5,4	148
		nom.	500			290	11,5	3,0	168
		½ nom.	250			135	11,0	1,5	185
LMC-AS/L-060-840-20/L28W2	10144839	max.	840	4.000	>80	450	12,1	5,4	155
		nom.	500			275	11,4	2,9	175
		½ nom.	250			130	11,0	1,4	193
LMC-AS/L-110-830-20/L56W2	10144840	max.	1.610	3.000	>80	450	24,2	10,9	148
		nom.	1.000			290	22,9	6,0	168
		½ nom.	500			135	22,0	3,0	185
LMC-AS/L-110-840-20/L56W2	10144841	max.	1.680	4.000	>80	450	24,2	10,9	155
		nom.	1.000			275	22,9	5,7	175
		½ nom.	500			130	22,0	2,9	193

All operating data are related to nom. operation at $t_c = t_p$.
Customized versions with LEDs of different light colours, CRI, intensities and with different types of connectors are available on request.

Dimensions



Wiring diagrams



Application notes



In the handling of the modules, safety measures regarding electrostatic discharge (ESD) as well as regarding mechanical stresses must be adhered to.



The system design must comply with all safety requirements posed by standard in dependence on the electrical supply and the installation area.

Approval and markings



Errors excepted.

We reserve the right to make alternations in the interest of improving our products.

Logistic data

Order number	KG		
10174558 *	0,022	300	4.800
10174559 *	0,022	300	4.800
10144836	0,014	600	9.600
10144837	0,014	600	9.600
10144838	0,022	300	4.800
10144839	0,022	300	4.800
10144840	0,043	250	4.000
10144841	0,043	250	4.000

* These versions will be delivered as a set of 4 LED modules

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