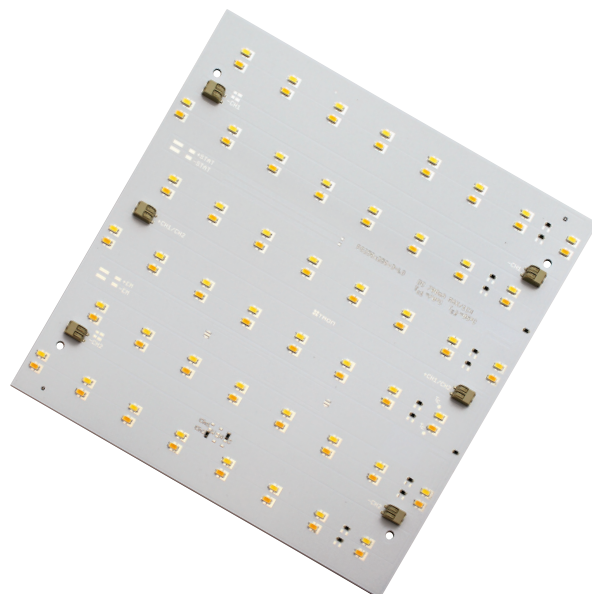


LED MODULE LG 250x250

- LED module designed for tube luminaries
- Zhaga, book 7 standard compatible
- Excellent efficacy – 189 lm/W, CRI up to 90
- Optional - two independent channels in 8Sx6P connection with the common positive terminal enabling high variability of use
- Optional - EMERGENCY and STATUS channel
- LED arrangement ensures uniform light distribution
- CC driving 350–700 mA (max. efficacy)
- Wago 2060 connectors for simple and fast assembly
- Lifetime L70 (30% lumen depreciation) 50.000 hours of operation
- Warranty 5 years



GENERAL PARAMETERS

dimensions	weight	storage temperature	ambient temp. - Ta	operating temp. - Tc	max. humidity	lifetime L70
250 x 250 mm	175 g	-40°C ... +85°C	-30°C ... +45°C	max. 70°C	80%	50.000 hours

TECHNICAL PARAMETERS

driving	no. of channels	current per ch.	flux	voltage	efficacy	power cons.
current	1	350 mA	1.400 lm	21,2 VDC	184 lm/W	7,6 W
		700 mA	2.650 lm	22,2 VDC	166 lm/W	16 W
	2	350 mA	2.800 lm	21,2 VDC	184 lm/W	15,2 W

Note: Typical values for CRI80, 4000 K, 25 °C (flux and efficacy are 10 % lower for CRI90)

ORDER CODE DESIGN

LCE 250x250-L- ○○○ - ○○○○ - ○

○○○ **first channel**

827 - warm white, 2.700K, CRI80

830 - warm white, 3.000K, CRI80

840 - neutral white, 4.000K, CRI80

865 - cold white, 6.500K, CRI80

930 - warm white 3.000K, CRI90

940 - neutral white 4.000K, CRI90

○○○ **second channel**

000 - no second channel

827 - warm white, 2.700K, CRI80

830 - warm white, 3.000K, CRI80

840 - neutral white, 4.000K, CRI80

865 - cold white, 6.500K, CRI80

930 - warm white 3.000K, CRI90

940 - neutral white 4.000K, CRI90

○ **emergency channel**

E - yes

0 - no

LED MODULE LG 250x500

- LED module designed for tube luminaries
- Excellent efficacy - 189 lm/W, CRI up to 90
- Optional - two independent channels for high variability of use
- Optional - EMERGENCY and STATUS channel
- LED arrangement ensures uniform light distribution
- CC driving 700–1400 mA (max. efficiency)
- Wago 2060 connectors for simple and fast assembly
- Lifetime L70 (30% lumen depreciation) 50.000 hours of operation
- Warranty 5 years



GENERAL PARAMETERS

dimensions	weight	storage temperature	ambient temp. - Ta	operating temp. - Tc	max. humidity	lifetime L70
250 x 500 mm	230 g	-40°C ... +85°C	-30°C ... +45°C	max. 70°C	80%	50.000 hours

TECHNICAL PARAMETERS

driving	no. of channels	current per ch.	flux	voltage	efficacy	power cons.
current	1	700 mA	2.100 lm	16 VDC	188 lm/W	11,2 W
		1.400 mA	4.000 lm	16,9 VDC	169 lm/W	23,7 W
	2	700 mA	4.200 lm	16 VDC	189 lm/W	22,4 W

Note: Typical values for CRI80, 4000 K, 25 °C (flux and efficacy are 10 % lower for CRI90)

To simplify installation of the module, additional breakaway mounting rail is on the longer side, which enables installation of the module with just 9 screws.

ORDER CODE DESIGN

LCE 250x500-L- ○○○ - ○○○○ - ○

○○○ **first channel**

○○○ **second channel**

○ **emergency channel**

827 - warm white, 2.700K, CRI80

000 - no second channel

E - yes

830 - warm white, 3.000K, CRI80

827 - warm white, 2.700K, CRI80

0 - no

840 - neutral white, 4.000K, CRI80

830 - warm white, 3.000K, CRI80

865 - cold white, 6.500K, CRI80

840 - neutral white, 4.000K, CRI80

930 - warm white 3.000K, CRI90

865 - cold white, 6.500K, CRI80

940 - neutral white 4.000K, CRI90

930 - warm white 3.000K, CRI90

940 - neutral white 4.000K, CRI90

LED MODULE LG 40x280

- Linear LED module designed for tube luminaries
- Zhaga, Book 7 standard compatible
- Excellent efficacy - 189 lm/W, CRI up to 90
- Optional - two independent channels in 4Sx6P or 8Sx3P connection with the common positive terminal enabling high variability of use
- CC driving 350–700 mA (max. efficacy)
- Wago 2060 connectors for simple and fast assembly
- Lifetime L70 (30% lumen depreciation) 50.000 hours of operation
- Supplied only to order
- Warranty 5 years



GENERAL PARAMETERS

dimensions	weight	storage temperature	ambient temp. - Ta	operating temp. - Tc	max. humidity	lifetime L70
40 x 280 mm	40 g	-40°C ... +85°C	-30°C ... +45°C	-30°C ... +70°C	80%	50.000 hours

TECHNICAL PARAMETERS (for 1 channel)

driving	connection	current per ch.	flux	voltage	efficacy	power cons.
current	4S x 6P	350 mA	725 lm	11 VDC	185 lm/W	3,85 W
	4S x 6P	700 mA	1.345 lm	11,5 VDC	167 lm/W	8,05 W
	8S x 3P	350 mA	1.450 lm	23 VDC	185 lm/W	7,7 W

Note: Typical values for CRI80, 4000 K, 25 °C (flux and efficacy are 10 % lower for CRI90)

Power consumption of the whole module can not exceed 10 W. Variant with 2 channels has max. power consumption 5 W per channel.

ORDER CODE DESIGN

LCE 40x280-L-



○○○ first channel

○○○ second channel

○○○○○ connection

827 - warm white, 2.700K, CRI80

000 - no second channel

04S6P (4 LED series, 6 parallel)

830 - warm white, 3.000K, CRI80

827 - warm white, 2.700K, CRI80

08S3P (8 LED series, 3 parallel)

840 - neutral white, 4.000K, CRI80

830 - warm white, 3.000K, CRI80

865 - cold white, 6.500K, CRI80

840 - neutral white, 4.000K, CRI80

930 - warm white 3.000K, CRI90

865 - cold white, 6.500K, CRI80

940 - neutral white 4.000K, CRI90

930 - warm white 3.000K, CRI90

940 - neutral white 4.000K, CRI90

LED MODULE LG 40x560

- Linear LED module designed for tube luminaries
- Zhaga, Book 7 standard compatible
- Excellent efficacy - 189 lm/W, CRI up to 90
- Optional - two independent channels in 8Sx6P connection with the common positive terminal enabling high variability of use
- Optional - EMERGENCY and STATUS channel
- CC driving 350–700 mA (max. efficacy)
- Wago 2060 connectors for simple and fast assembly
- Lifetime L70 (30% lumen depreciation) 50.000 hours of operation
- Supplied only to order
- Warranty 5 years



GENERAL PARAMETERS

dimensions	weight	storage temperature	ambient temp. - Ta	operating temp. - Tc	max. humidity	lifetime L70
40 x 560 mm	80 g	-40°C ... +85°C	-30°C ... +45°C	-30°C ... +70°C	80%	50.000 hours

TECHNICAL PARAMETERS

driving	connection	current per ch.	flux	voltage	efficacy	power cons.
current	4S x 6P	350 mA	1.450lm	11 VDC	185 lm/W	7,7 W
		700 mA	2.690 lm	11,5 VDC	167 lm/W	16,1 W
	8S x 3P	350 mA	2.900 lm	22 VDC	185 lm/W	15,4 W

Note: Typical values for CRI80, 4000 K, 25 °C (flux and efficacy are 10 % lower for CRI90)

Power consumption of the whole module can not exceed 10 W. Variant with 2 channels has max. power consumption 5 W per channel.

ORDER CODE DESIGN

LCE 40x560-L-



○○○ first channel

○○○ second channel

○ emergency channel

827 - warm white, 2.700K, CRI80

000 - no second channel

E - yes

830 - warm white, 3.000K, CRI80

827 - warm white, 2.700K, CRI80

0 - no

840 - neutral white, 4.000K, CRI80

830 - warm white, 3.000K, CRI80

865 - cold white, 6.500K, CRI80

840 - neutral white, 4.000K, CRI80

930 - warm white 3.000K, CRI90

865 - cold white, 6.500K, CRI80

940 - neutral white 4.000K, CRI90

930 - warm white 3.000K, CRI90

940 - neutral white 4.000K, CRI90

LED MODULE LG 20x280-24

- Linear LED module designed for tube luminaries
- Zhaga, book 7 standard compatible
- Excellent efficacy - 184 lm/W, CRI up to 90
- Current driving
- 8Sx3P or 12Sx2P connection
- Designed for both parallel and series connection, can be combined with 20x560-48 LG LED module
- WAGO 2060 connectors for simple and fast assembly
- Lifetime L70 (30% lumen depreciation) 50.000 hours of operation
- Warranty 5 years
- Optional - variant with LED LEMWS38



Illustrative photo

GENERAL PARAMETERS

dimensions	weight	storage temperature	ambient temp. - Ta	operating temp. - Tc	max. humidity	lifetime L70
20 x 280 mm	10 g	-40°C ... +85°C	-30°C ... +45°C	-30°C ... +70°C	80%	50.000 hours

TECHNICAL PARAMETERS (LED LEMWS59 - 5630)

module type	connection	current per ch.	flux	voltage	efficacy	power cons.
PS-20x280-24LG	8S x 3P	195 mA	775 lm	22,1 V	180 lm/W	4,3 W
		390 mA	1.500 lm	23,2 V	166 lm/W	9,1 W
	12S x 2P	130 mA	775 lm	33,1 V	180 lm/W	4,3 W
		260 mA	1.500 lm	34,8 V	166 lm/W	9,1 W

Note: Typical values for CRI80, 4000 K, 25 °C (flux and efficacy are 10 % lower for CRI90)

ORDER CODE DESIGN

LCE 20x280-24-



○ LED

○○○ first channel

○○○○○ connection

E (LED3528 - LEMWS38)

827 - warm white, 2.700K, CRI80

08S3P (8 LED series, 3 parallel)

H (LED5630 - LEMWS59)

830 - warm white, 3.000K, CRI80

12S2P (12 LED series, 2 parallel)

840 - neutral white, 4.000K, CRI80

865 - cold white, 6.500K, CRI80

930 - warm white 3.000K, CRI90

940 - neutral white 4.000K, CRI90

LED MODULE LG 20x280-36

- Linear LED module designed for tube luminaries
- Zhaga, Book 7 standard compatible
- Excellent efficacy - 189 lm/W, CRI up to 90
- Current driving
- 12Sx3P or 18Sx2P connection
- Designed for both parallel and series connection, can be combined with 20x650-72 LG LED modules
- WAGO 2060 connectors for simple and fast assembly
- Lifetime L70 (30% lumen depreciation) 50.000 hours of operation
- Warranty 5 years
- Optional - variant with LED LEMWS38



Illustrative photo

GENERAL PARAMETERS

dimensions	weight	storage temperature	ambient temp. - Ta	operating temp. - Tc	max. humidity	lifetime L70
20 x 280 mm	10 g	-40°C ... +85°C	-30°C ... +45°C	-30°C ... +70°C	80%	50.000 hours

TECHNICAL PARAMETERS (LED LEMWS59 - 5630)

module type	connection	current per ch.	flux	voltage	efficacy	power cons.
PS-20x280-36LG	12S x 3P	195 mA	1.775 lm	33,1 V	182 lm/W	6,5 W
		390 mA	2.250 lm	34,8 V	166 lm/W	13,5 W
	18S x 2P	130 mA	1.775 lm	49,7 V	182 lm/W	6,5 W
		260 mA	2.250 lm	52,2 V	166 lm/W	13,5 W

Note: Typical values for CRI80, 4000 K, 25 °C (flux and efficacy are 10 % lower for CRI90)

ORDER CODE DESIGN

LCE 20x280-36-



○ LED

○○○ first channel

○○○○○ connection

E (LED3528 - LEMWS38)

827 - warm white, 2.700K, CRI80

12S3P (12 LED series, 3 parallel)

H (LED5630 - LEMWS59)

830 - warm white, 3.000K, CRI80

18S2P (18 LED series, 2 parallel)

840 - neutral white, 4.000K, CRI80

865 - cold white, 6.500K, CRI80

930 - warm white 3.000K, CRI90

940 - neutral white 4.000K, CRI90

LED MODULE LG 20x560-48

- Linear LED module designed for tube luminaries
- Zhaga, Book 7 standard compatible
- Excellent efficacy - 184 lm/W, CRI up to 90
- Current driving
- 8Sx6P, 12Sx4P or 16Sx3P 1P LED connection
- Designed for both parallel and series connection, can be combined with 20x280-24 LG LED modules
- WAGO 2060 connectors for simple and fast assembly
- Lifetime L70 50.000 hours of operation
- Warranty 5 years
- Optional - variant with LED LEMWS38



GENERAL PARAMETERS

dimensions	weight	storage temperature	ambient temp. - Ta	operating temp. - Tc	max. humidity	lifetime L70
20 x 560 mm	20 g	-40°C ... +85°C	-30°C ... +45°C	-30°C ... +70°C	80%	50.000 hours

TECHNICAL PARAMETERS (LED LEMWS59 - 5630)

module type	connection	current per ch.	flux	voltage	efficacy	power cons.
PS-20x560-48LG	8S x 6P	390 mA	1.550 lm	22,1 V	180 lm/W	8,6 W
		780 mA	3.000 lm	23,2 V	166 lm/W	18,1 W
	12S x 4P	260 mA	1.550 lm	33,1 V	180 lm/W	8,6 W
		520 mA	3.000 lm	34,8 V	166 lm/W	18,1 W
	16S x 3P	195 mA	1.550 lm	44,2 V	180 lm/W	8,6 W
		390 mA	3.000 lm	46,4 V	166 lm/W	18,1 W

Note: Typical values for CRI80, 4000 K, 25 °C (flux and efficacy are 10 % lower for CRI90)

ORDER CODE DESIGN

LCE 20x560-48-



○ LED

○○○ first channel

○○○○○ connection

E (LED3528 - LEMWS38)

827 - warm white, 2.700K, CRI80

08S6P (8 LED series, 6 parallel)

H (LED5630 - LEMWS59)

830 - warm white, 3.000K, CRI80

12S4P (12 LED series, 4 parallel)

840 - neutral white, 4.000K, CRI80

16S3P (16 LED series, 3 parallel)

865 - cold white, 6.500K, CRI80

930 - warm white 3.000K, CRI90

940 - neutral white 4.000K, CRI90

LED MODULE LG 20x560-72

- Linear LED module designed for tube luminaries
- Zhaga, Book 7 standard compatible
- Excellent efficacy - 189 lm/W, CRI up to 90
- Current driving
- 12Sx6P or 18Sx4P connection
- Designed for both parallel and series connection; can be combined with 20x280-36 LG LED modules
- WAGO 2060 connectors for simple and fast assembly
- Lifetime L70 50.000 hours of operation
- Warranty 5 years
- Optional - variant with LED LEMWS38



Illustrative photo

GENERAL PARAMETERS

dimensions	weight	storage temperature	ambient temp. - Ta	operating temp. - Tc	max. humidity	lifetime L70
20 x 560 mm	20 g	-40°C ... +85°C	-30°C ... +45°C	-30°C ... +70°C	80%	50.000 hours

TECHNICAL PARAMETERS (LED LEMWS59 - 5630)

module type	connection	current per ch.	flux	voltage	efficacy	power cons.
PS-20x560-72LG	12S x 6P	390 mA	2.350 lm	33,1 V	182 lm/W	12,9 W
		780 mA	4.500 lm	34,8 V	166 lm/W	27,1 W
	18S x 4P	260 mA	2.350 lm	49,7 V	182 lm/W	12,9 W
		520 mA	4.500 lm	52,2 V	166 lm/W	27,1 W

Note: Typical values for CRI80, 4000 K, 25 °C (flux and efficacy are 10 % lower for CRI90)

ORDER CODE DESIGN

LCE 20x560-72-



○ LED

○○○ first channel

○○○○○ connection

E (LED3528 - LEMWS38)

827 - warm white, 2.700K, CRI80

12S6P (12 LED series, 6 parallel)

H (LED5630 - LEMWS59)

830 - warm white, 3.000K, CRI80

18S4P (18 LED series, 4 parallel)

840 - neutral white, 4.000K, CRI80

865 - cold white, 6.500K, CRI80

930 - warm white 3.000K, CRI90

940 - neutral white 4.000K, CRI90

LED MODULE LG 24x280

- Linear LED module designed for tube luminaries
- Zhaga, Book 7 standard compatible
- Excellent efficacy - 189 lm/W, CRI up to 90
- Current driving
- Optional - 1 or 2 independent channels
- 8Sx3P
- Designed for both parallel and series connection, can be combined with 24x560 LG modules
- WAGO 2060 connectors for simple and fast assembly
- Lifetime L70 (30% lumen depreciation) 50.000 hours of operation
- Optional - variant with LED LEMWS38



Illustrative photo

GENERAL PARAMETERS

dimensions	weight	storage temperature	ambient temp. - Ta	operating temp. - Tc	max. humidity	lifetime L70
24 x 280 mm	11 g	-40°C ... +85°C	-30°C ... +45°C	-30°C ... +70°C	80%	50.000 hours

TECHNICAL PARAMETERS (for 1 channel, LED LEMWS59 - 5630)

module type	connection	current per ch.	flux	voltage	efficacy	power cons.
PS-24x280-LG	8S x 3P	195 mA	785 lm	22 V	182 lm/W	4,3 W
		390 mA	1.503 lm	23,2 V	166 lm/W	8,6 W

Note: Typical values for CRI80, 4000 K, 25 °C (flux and efficacy are 10 % lower for CRI90)

Power consumption of the whole module can not exceed 9,7 W. Variant with 2 channels has max. power consumption 4,9 W per channel.

ORDER CODE DESIGN

LCE 24x280- ○ - ○○○○ - ○○○○ - ○○○○

○ LED	○○○ first channel	○○○ second channel	○○○○○ connection
E (LED 3528)	827 - warm white, 2.700K, CRI80	000 - no second channel	08S3P (8 LED series, 3 parallel)
H (LED 5630)	830 - warm white, 3.000K, CRI80	827 - warm white, 2.700K, CRI80	
	840 - neutral white, 4.000K, CRI80	830 - warm white, 3.000K, CRI80	
	865 - cold white, 6.500K, CRI80	840 - neutral white, 4.000K, CRI80	
	930 - warm white 3.000K, CRI90	865 - cold white, 6.500K, CRI80	
	940 - neutral white 4.000K, CRI90	930 - warm white 3.000K, CRI90	
		940 - neutral white 4.000K, CRI90	

LED MODULE LG 24x560

- Linear LED module designed for tube luminaries
- Zhaga, Book 7 standard compatible
- Excellent efficacy - 189 lm/W, CRI up to 90
- Current driving
- Optional – 1 or 2 independent channels
- 8Sx6P, 16Sx3P or 24Sx2P connection
- Designed for both parallel and series connection, can be combined with 24x280 LG modules
- WAGO 2060 connectors for simple and fast assembly
- Lifetime L70 (30% lumen depreciation) 50.000 hours of operation
- Optional - variant with LED LEMWS38



GENERAL PARAMETERS

dimensions	weight	storage temperature	ambient temp. - Ta	operating temp. - Tc	max. humidity	lifetime L70
24 x 560 mm	20 g	-40°C ... +85°C	-30°C ... +45°C	-30°C ... +70°C	80%	50.000 hours

TECHNICAL PARAMETERS (for 1 channel, LED LEMWS59 - 5630)

module type	connection	current per ch.	flux	voltage	efficacy	power cons.
PS-24x560-LG	8S x 6P	390 mA	1.570 lm	22 V	182 lm/W	8,6 W
		780 mA	3.006 lm	23,2 V	166 lm/W	17,2 W
	16S x 3P	195 mA	785 lm	44 V	182 lm/W	8,6 W
		390 mA	1.503 lm	46,4 V	166 lm/W	17,2 W
	24S x 2P	130 mA	1.570 lm	66 V	182 lm/W	8,6 W
		260 mA	3.006 lm	69,6 V	166 lm/W	17,2 W

Note: Typical values for CRI80, 4000 K, 25 °C (flux and efficacy are 10 % lower for CRI90)

Power consumption of the whole module can not exceed 20 W. Variant with 2 channels has max. power consumption 10 W per channel.

ORDER CODE DESIGN

LCE 24x560- ○ - ○○○○ - ○○○○ - ○○○○

○ LED	○○○ first channel	○○○ second channel	○○○○○ connection
E (LED 3528)	827 - warm white, 2.700K, CRI80	000 - no second channel	08S6P (8 LED series, 6 parallel)
H (LED 5630)	830 - warm white, 3.000K, CRI80	827 - warm white, 2.700K, CRI80	16S3P (16 LED series, 3 parallel)
	840 - neutral white, 4.000K, CRI80	830 - warm white, 3.000K, CRI80	24S2P (24 LED series, 2 parallel)
	865 - cold white, 6.500K, CRI80	840 - neutral white, 4.000K, CRI80	
	930 - warm white 3.000K, CRI90	865 - cold white, 6.500K, CRI80	
	940 - neutral white 4.000K, CRI90	930 - warm white 3.000K, CRI90	
		940 - neutral white 4.000K, CRI90	