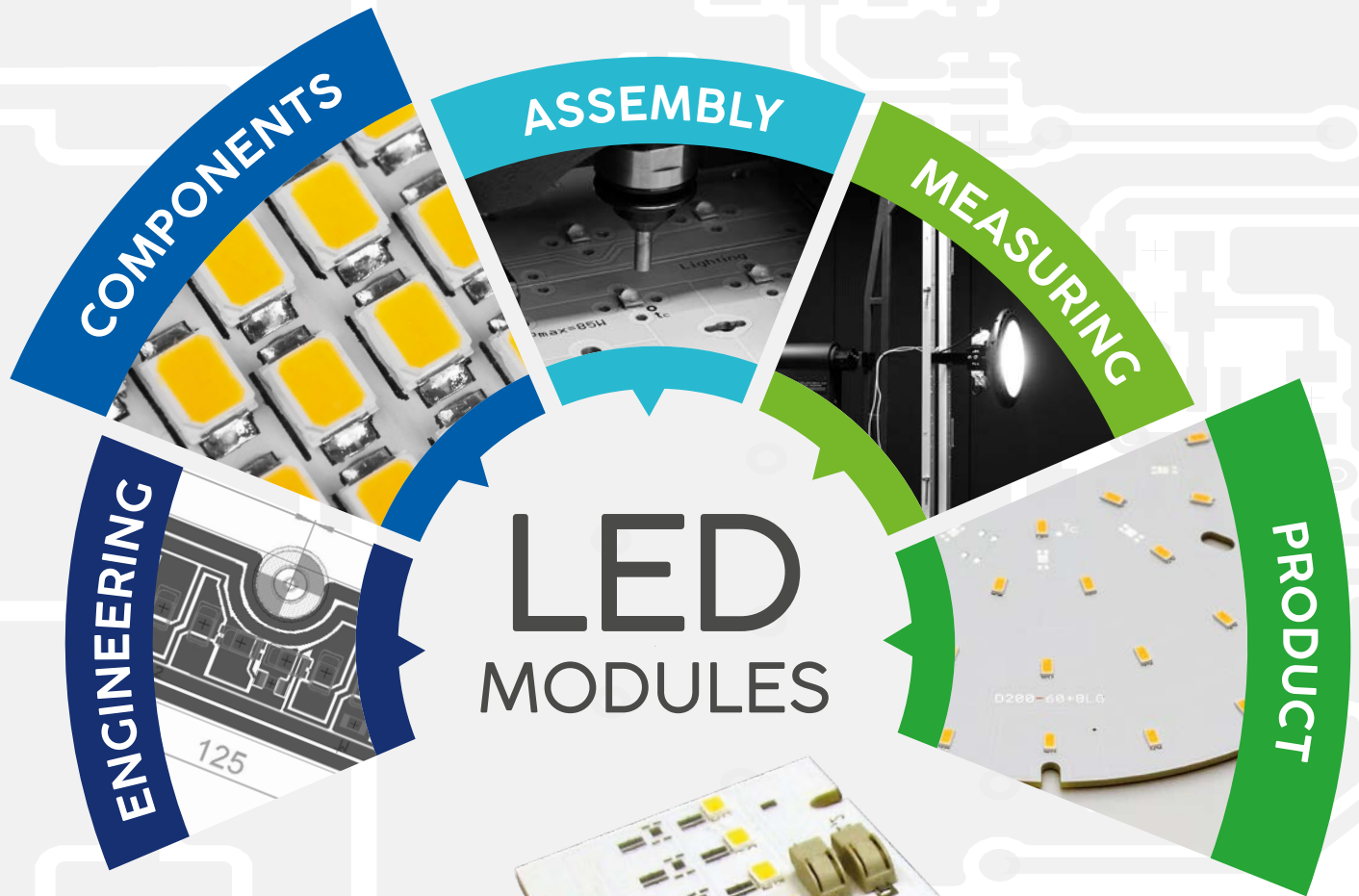
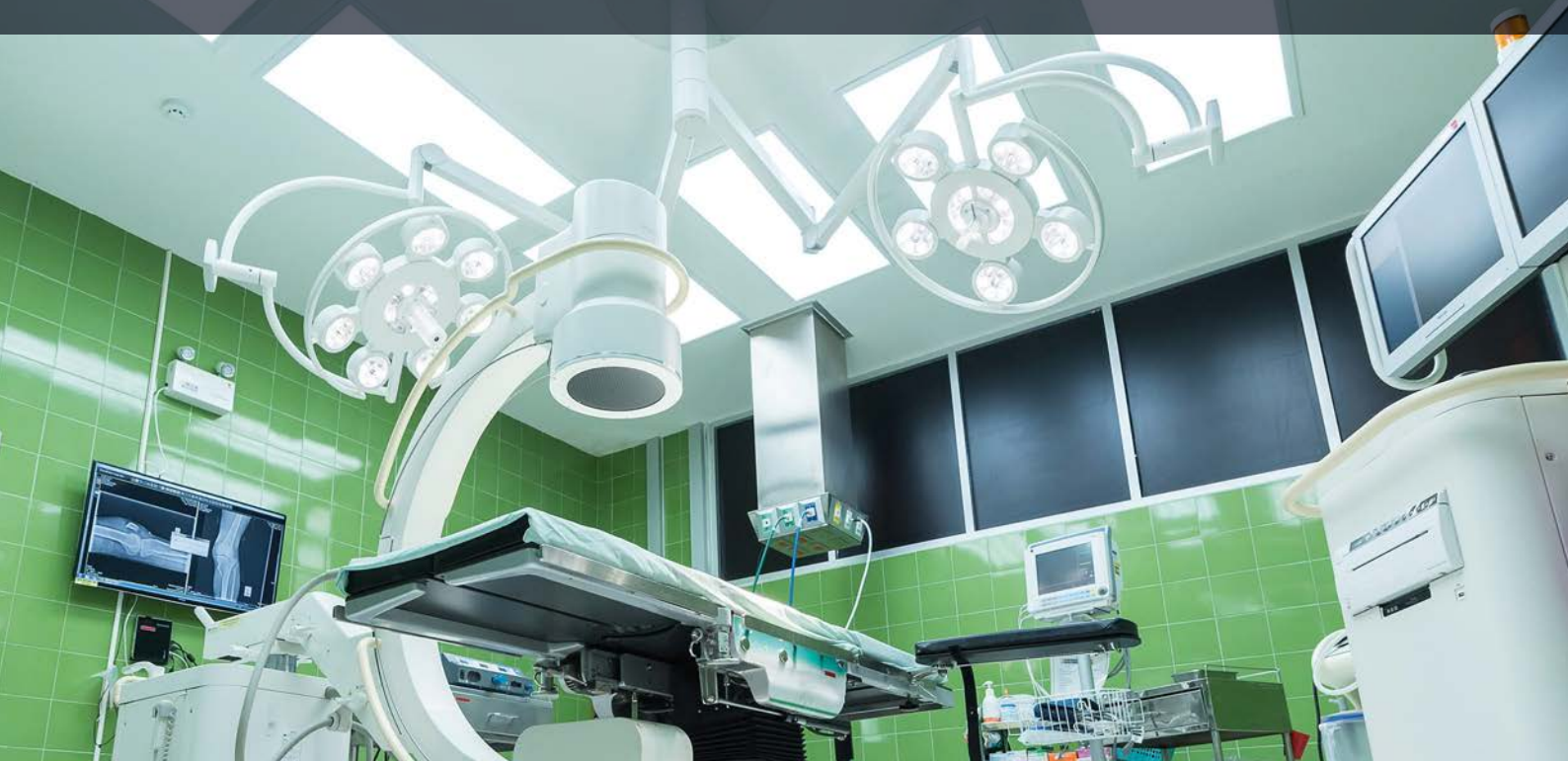




**SOLUTION FOR
LED LIGHTING**

PROFESSIONAL SERVICES

WWW.TRON.CZ



DISINFECTION LIGHTING

405 nm

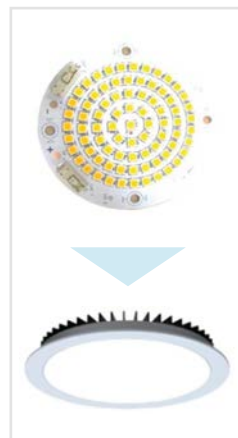
LG Innotek

Light with the wavelength of 405 nm is harmless to the human body, but **it has the ability to destroy bacteria and molds.**

Test result of single troffer

Bacteria	60 mA @ 405 nm / 24 h		
	Before	50 cm dose 3.912	150 cm dose 1.193
E.Coli			
MRSA			

Dose = mJ/cm²



Suitable for



Swimming pool



Hospital



Kitchen



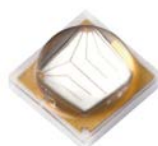
Elevator



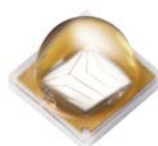
Bathroom



Gym



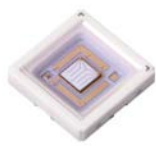
3535 Normal



3535 Narrow



5152 Flat



6060 Flat



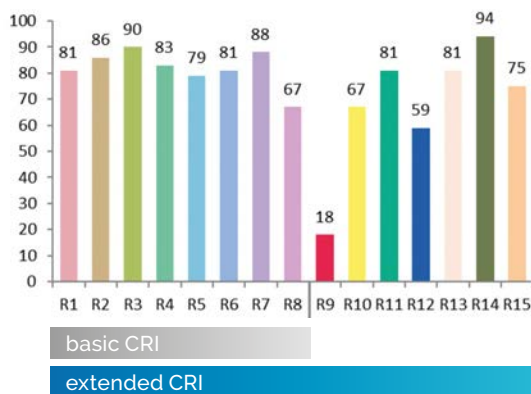
6868 4in1



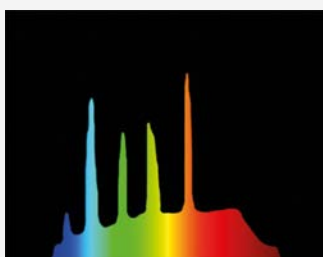
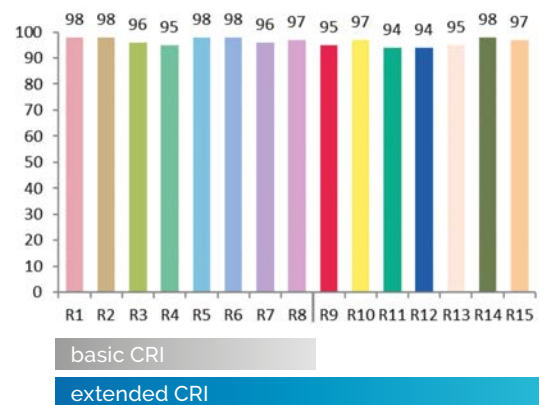
HIGH CRI LED LIGHTING FAITHFUL COLORS

CRI > 95

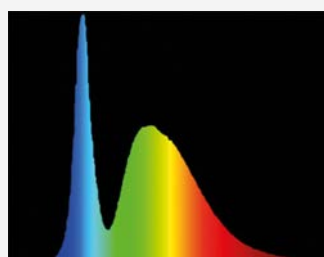
Standard LED



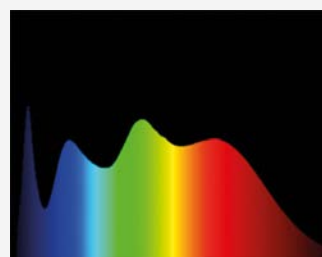
HIGH CRI LED



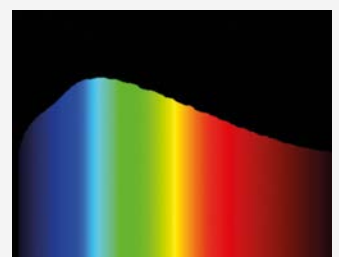
Fluorescent



Standard LED

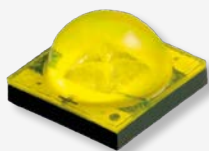


HIGH CRI LED



Daylight

To achieve faithful colors you need evenly distributed wavelengths across the full color spectrum.

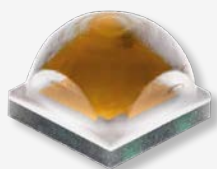


XP-G2 5 W

XP-G3 6 W

Efficacy up to 180 lm/W

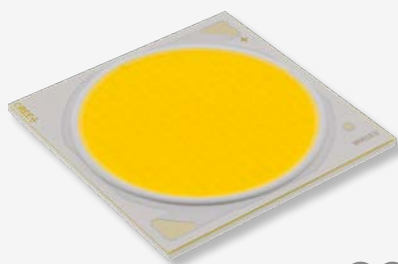
Flux up to 800 lm/LED @2A



XP-L, XP-L2 10 W

Efficacy up to 180 lm/W

Flux up to 1200 lm/LED @3A



COB up to 150 W

CREE 

official distributor
& solution
provider

Wide selection
of **LEDs**
in catalogue





official distributor

Wide selection
of **LEDs**
in catalogue



5630

up to 200 mA/LED



2835

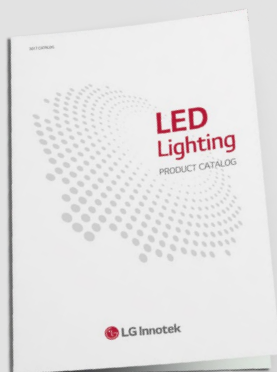
up to 180 mA/LED

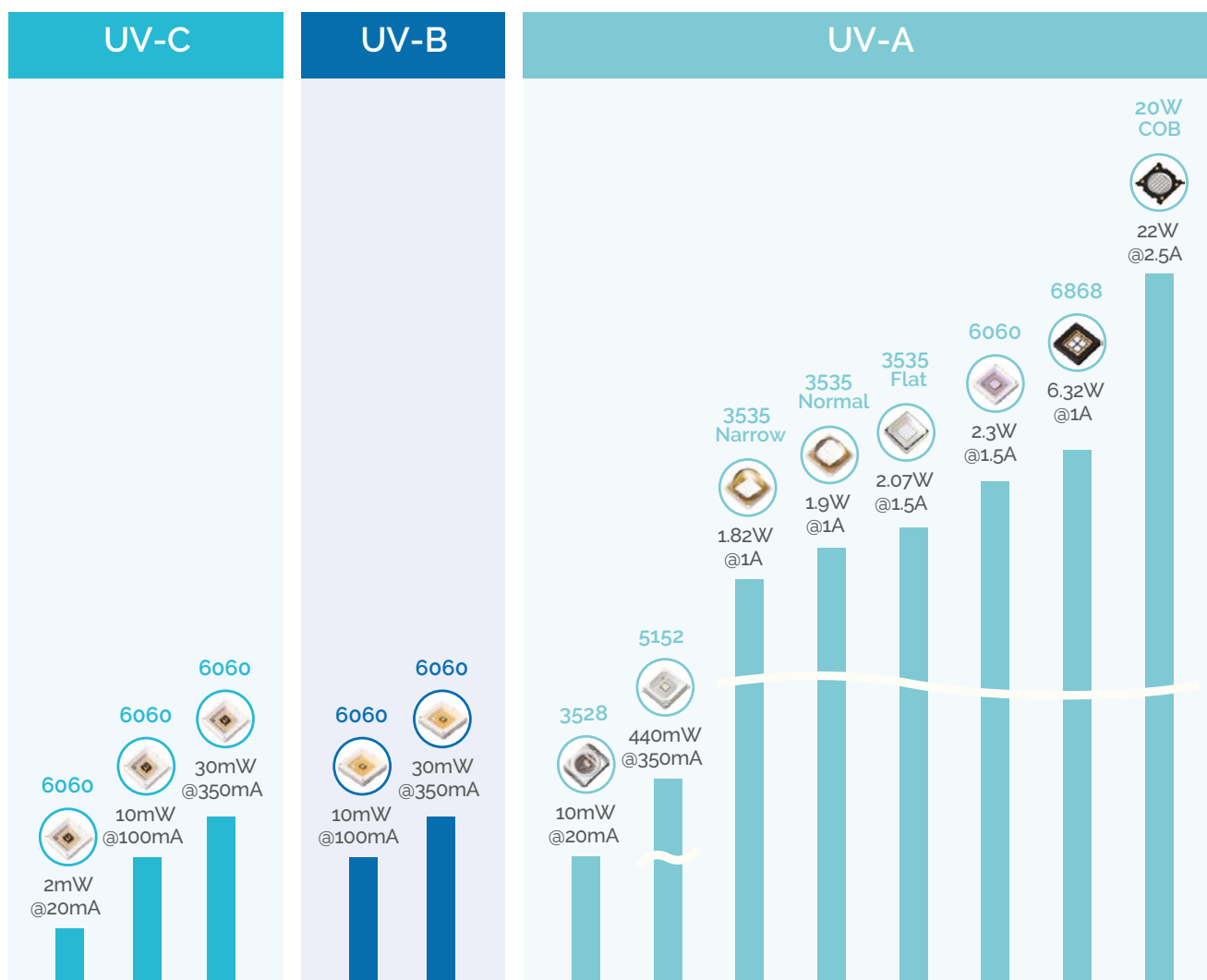
Efficacy

up to 200 lm/W

Flux

up to 37 lm/LED @65 mA





TRON MODULES ZHAGA STANDARD

- ZHAGA, BOOK 7 STANDARD COMPATIBLE
- 5 YEARS WARRANTY
- FLEXIBLE PARAMETERS
- VARIABLE CONNECTIVITY

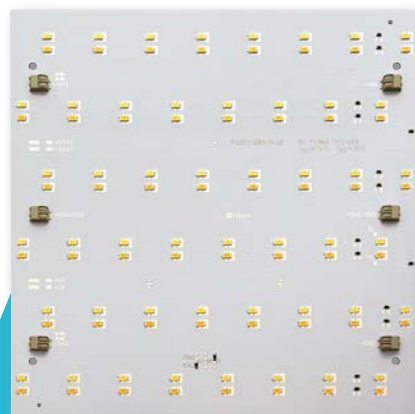


Making **LED**
light sources
interchangeable



LED MODULE LG 250 × 250

- ✓ Zhaga, Book 7 standard compatible
- ✓ Selectable color temperatures:
warm white (2.700 K), neutral white (4.000 K), cold white (6.500 K)
- ✓ CRI80 or CRI90
- ✓ Optional - EMERGENCY and STATUS channel
- ✓ 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

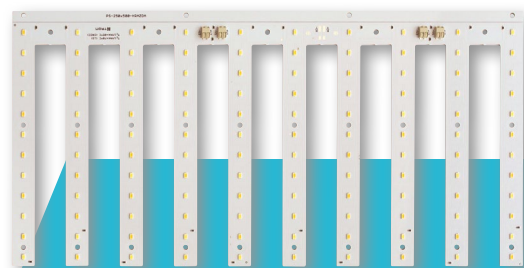
driving	no. of channels	current per ch.	flux	voltage	efficacy	power cons.
current	1	350 mA	1.400 lm	21,2 VDC	184 lm/W	7,6 W
		700 mA	2.650 lm	22,2 VDC	166 lm/W	16 W
	2	350 mA	2.800 lm	21,2 VDC	184 lm/W	15,2 W

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

LED MODULE

LG 250 × 500

- ✓ Selectable color temperatures:
warm white (2.700 K), neutral white (4.000 K), cold white (6.500 K)
- ✓ CRI80 or CRI90
- ✓ Optional - EMERGENCY and STATUS channel
- ✓ 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.

LED MODULE

LG 40 × 280

- ✓ Zhaga, Book 7 standard compatible
- ✓ Selectable color temperatures:
warm white (2.700 K), neutral white (4.000 K), cold white (6.500 K)
- ✓ CRI80 or CRI90
- ✓ 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

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.

LED MODULE

LG 40 × 560

- ✓ Zhaga, Book 7 standard compatible
- ✓ Selectable color temperatures:
warm white (2.700 K), neutral white (4.000 K), cold white (6.500 K)
- ✓ CRI80 or CRI90
- ✓ Optional - EMERGENCY and STATUS channel
- ✓ 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

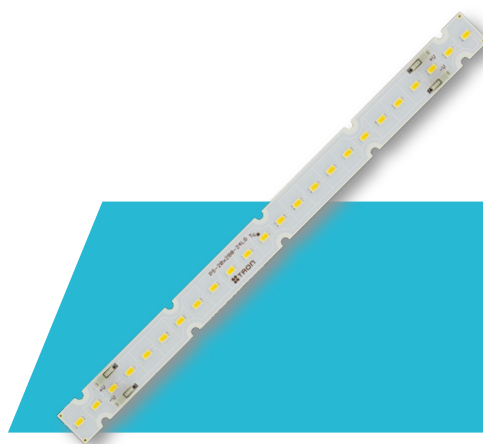
driving	connection	current per ch.	flux	voltage	efficacy	power cons.
current	4S x 6P	350 mA	1.450 lm	11 VDC	185 lm/W	7,7 W
		700 mA	2.690 lm	11,5 VDC	167 lm/W	16,1 W
	8S x 3P	350 mA	2.900 lm	22 VDC	185 lm/W	15,4 W

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.

LED MODULE

LG 20 × 280-24

- ✓ Zhaga, Book 7 standard compatible
- ✓ Selectable color temperatures:
warm white (2.700 K), neutral white (4.000 K), cold white (6.500 K)
- ✓ CRI80 or CRI90
- ✓ Warranty 5 years
- ✓ Optional - variant with LED 3528



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)

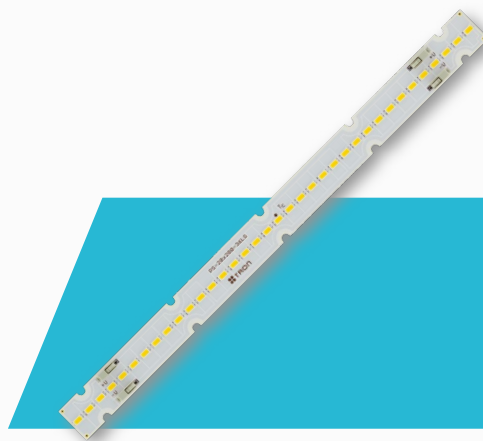
module type	connection	current per ch.	flux	voltage	efficacy	power cons.
PS-20x280-24LG	8S x 3P	195 mA	775 lm	22,1 V	180 lm/W	4,3 W
		390 mA	1.500 lm	23,2 V	166 lm/W	9,1 W
	12S x 2P	130 mA	775 lm	33,1 V	180 lm/W	4,3 W
		260 mA	1.500 lm	34,8 V	166 lm/W	9,1 W
	24S x 1P	65 mA	775 lm	66,2 V	180 lm/W	4,3 W
		130 mA	1.500 lm	69,6 V	166 lm/W	9,1 W

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

LED MODULE

LG 20 × 280-36

- ✓ Zhaga, Book 7 standard compatible
- ✓ Selectable color temperatures:
warm white (2.700 K), neutral white (4.000 K), cold white (6.500 K)
- ✓ CRI80 or CRI90
- ✓ Warranty 5 years
- ✓ Optional - variant with LED 3528



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
	36S x 1P	65 mA	1.775 lm	99,4 V	182 lm/W	6,5 W
		130 mA	2.250 lm	104 V	166 lm/W	13,5 W

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

LED MODULE

LG 20 × 560-48

- ✓ Zhaga, Book 7 standard compatible
- ✓ Selectable color temperatures:
warm white (2.700 K), neutral white (4.000 K), cold white (6.500 K)
- ✓ CRI80 or CRI90
- ✓ Warranty 5 years
- ✓ Optional - variant with LED 3528



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)

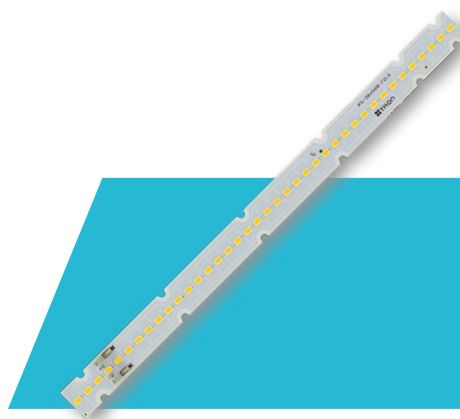
module type	connection	current per ch.	flux	voltage	efficacy	power cons.
PS-20x560-48LG	8S x 6P	390 mA	1.550 lm	22,1 V	180 lm/W	8,6 W
		780 mA	3.000 lm	23,2 V	166 lm/W	18,1 W
	12S x 4P	260 mA	1.550 lm	33,1 V	180 lm/W	8,6 W
		520 mA	3.000 lm	34,8 V	166 lm/W	18,1 W
	16S x 3P	195 mA	1.550 lm	44,2 V	180 lm/W	8,6 W
		390 mA	3.000 lm	46,4 V	166 lm/W	18,1 W
	24S x 2P	130 mA	1.550 lm	66,2 V	180 lm/W	8,6 W
		260 mA	3.000 lm	69,6 V	166 lm/W	18,1 W
	48S x 1P	65 mA	1.550 lm	132 V	180 lm/W	8,6 W
		130 mA	3.000 lm	139 V	166 lm/W	18,1 W

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

LED MODULE

LG 20 × 560-72

- ✓ Zhaga, Book 7 standard compatible
- ✓ Selectable color temperatures:
warm white (2.700 K), neutral white (4.000 K), cold white (6.500 K)
- ✓ CRI80 or CRI90
- ✓ Optional - EMERGENCY and STATUS channel
- ✓ Warranty 5 years



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)

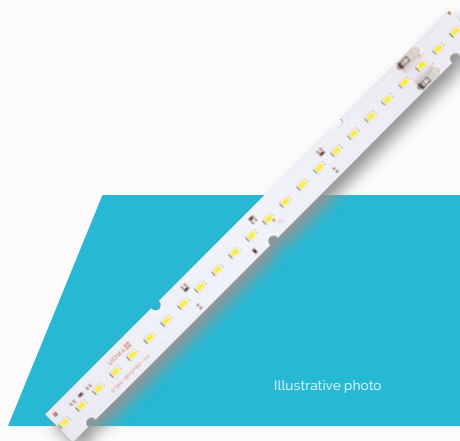
module type	connection	current per ch.	flux	voltage	efficacy	power cons.
PS-20x560-72LG	12S x 6P	390 mA	2.350 lm	33,1 V	182 lm/W	12,9 W
		780 mA	4.500 lm	34,8 V	166 lm/W	27,1 W
	18S x 4P	260 mA	2.350 lm	49,7 V	182 lm/W	12,9 W
		520 mA	4.500 lm	52,2 V	166 lm/W	27,1 W
	24S x 3P	195 mA	2.350 lm	66,2 V	182 lm/W	12,9 W
		390 mA	4.500 lm	69,6 V	166 lm/W	27,1 W
	36S x 2P	130 mA	2.350 lm	99,4 V	182 lm/W	12,9 W
		260 mA	4.500 lm	104 V	166 lm/W	27,1 W
	72S x 1P	65 mA	2.350 lm	198 V	182 lm/W	12,9 W
		130 mA	4.500 lm	209 V	166 lm/W	27,1 W

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

LED MODULE

LG 24 × 280

- ✓ Zhaga, Book 7 standard compatible
- ✓ Selectable color temperatures:
warm white (2.700 K), neutral white (4.000 K), cold white (6.500 K)
- ✓ CRI80 or CRI90
- ✓ Warranty 5 years
- ✓ Optional - variant with LED 3528



GENERAL PARAMETERS

dimensions	weight	storage temperature	ambient temp. - Ta	operating temp. - Tc	max. humidity	lifetime L70
20 x 280 mm	11 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-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
	24S x 1P	65 mA	785 lm	66 V	182 lm/W	4,3 W
		130 mA	1.503 lm	69,6 V	166 lm/W	8,6 W

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

LED MODULE

LG 24 × 560

- ✓ Zhaga, Book 7 standard compatible
- ✓ Selectable color temperatures:
warm white (2.700 K), neutral white (4.000 K), cold white (6.500 K)
- ✓ CRI80 or CRI90
- ✓ Warranty 5 years
- ✓ Optional - variant with LED 3528



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

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
	48S x 1P	65 mA	1.570 lm	132 V	182 lm/W	8,6 W
		130 mA	3.006 lm	139,2 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.

CAN'T YOU CHOOSE FROM ANY OF THE STANDARD MODULES?
WE CAN DESIGN AND MANUFACTURE CUSTOM LED MODULES.



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