

# 112 CURRENT LG

- Premium LED ribbon with 112 LEDs (LG Gen 3 PREMIUM) designed for current driving and highest possible efficacy
- Wide range of luminous flux due to the usage of current driving - 170 lm/W with nominal and 120–130 lm/W with maximum power consumption
- CRI>80 guarantees natural light
- Lifetime L70 (30% lumen depreciation) – 50.000 hours of operation at Tc
- Warranty 3 years
- **This LED ribbon must be connected to the proper driver!**



## Technical parameters

CURRENT NA SEGMENT	60 - 150 mA	
POWER CONSUMPTION	20 - 55 W/m	
NO. OF LEDS	112 LEDs/m	
MAX T <sub>c</sub>	70 °C	
LED TYPE	LG Gen 3 PREMIUM	
MAX. LENGTH*	1,86 m	
PACKING	5 m	

\* $\delta$  20 = 26 sections (1 section = 71,43 mm) is the length of LED ribbon from the connection, at which lumen depreciation reaches 20%.



## Product variants

ORDER CODE	PRODUCT NAME	CCT	IP RATING	EFFICACY	FLUX**
00205191	LED RIBBON 112/W LG 5152 CURRENT	Cool white	IP20	130 - 170 lm/W	3400 - 7100 lm/m
00205192	LED RIBBON 112/NW LG 5152 CURRENT	Neutral white	IP20	125 - 165 lm/W	3300 - 6900 lm/m
00205193	LED RIBBON 112/WW LG 5152 CURRENT	Warm white	IP20	118 - 155 lm/W	3100 - 6500 lm/m

\*\* The luminous flux values are based on typical values given by the producer of the LED at Tc=25° C.



## Recommended power supplies

ORDER CODE	TYPE	OUTPUT CURRENT	POWER CONSUMPTION	MIN. LENGTH OF LED RIBBON***	MAX. RECOMMENDED LENGTH	IP RATING	DIMENSIONS [MM]	WARRANTY
00201637	APC-16-350	350 mA	16 W	214,3 mm	357,1 mm	IP30	77 x 40 x 29	2 years
00201623	APC-16-700	700 mA	16 W	357,1 mm	714,3 mm	IP30	77 x 40 x 29	2 years
00203070	APC-25-1050	1050 mA	25 W	500 mm	1142,8 mm	IP30	84 x 57 x 29.5	2 years
00200787	LPC-20-350	350 mA	20 W	214,3 mm	357,1 mm	IP67	118 x 35 x 26	2 years
00200552	LPC-20-700	700 mA	20 W	357,1 mm	714,3 mm	IP67	118 x 35 x 26	2 years
00201481	LPC-35-1050	1050 mA	35 W	500 mm	1142,8 mm	IP67	148 x 40 x 30	2 years
00200798	LPC-60-1400	1400 mA	60 W	714,3 mm	1500 mm	IP67	162.5 x 42.5 x 32	2 years
00201084	LPC-60-1750	1750 mA	60 W	857,1 mm	1928,6 mm	IP67	162.5 x 42.5 x 32	2 years
00201497	LPF-60-24	2500 mA	60 W	1214,3 mm	2714,3 mm	IP67	162.5 x 42.5 x 32	5 years
00201498	LPF-90-24	3750 mA	90 W	1785,8 mm	4071,5 mm	IP67	161 x 61 x 36	5 years

\*\*\* Min. length of LED ribbon must be kept. If the ribbon is shorter, it may get damaged.



## Installation of LED Ribbons

LED ribbon should always be installed as a part of LED profile. LED profile is a simple lighting fixture composed of four basic components:

- LED ribbon (light source)
- AL profile (heat conducting body)
- Linear optical diffuser (LED ribbon protection and light behavior)
- Accessories (wiring, profile endcaps, mounting brackets etc.)

Installation of LED ribbons into profiles is recommended for the following reasons:

- LED thermal management (LED ribbons cannot be installed in wood or in other non-heat conducting surface due to the danger of overheating)
- LED ribbon protection
- Protection against electric shock (although only against low voltage - 12 V or 24 V)

Our portfolio of LED profiles includes everything from simple kitchen and furniture lights to main lights in industrial buildings, sport centers, and also lights used in advertisement.

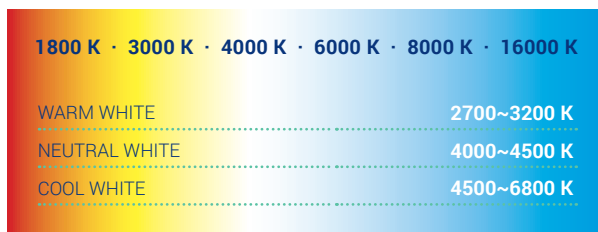
Lifetime of LED profile is determined by LED ribbon which is used in LED profiles. Our LED ribbons have guaranteed lifetime L70 (30% Lumen Depreciation) between 25.000 and 70.000 hours of operation.

There are two kinds of protection against weather conditions. First option is to use IP64 LED ribbon in LED profiles. Secondly, LED profile can be filled with silicon based material which will ensure IP64.



## Important parameters

### Colour temperature



### Viewing Angle

Defines the angle into which majority of light is being emitted. Typical viewing angle of high bay lights and low bay lights is around 60° and 90° respectively. Street lighting applications usually use special asymmetrical optics.

### CRI

Color Rendering Index - indicates how evenly wavelengths are distributed in the light spectrum. Low CRI value causes distortion of colours in the environment (e.g. greenish touch). CRI (sometimes also Ra) range is 0–100. All environments with human activity should be equipped with light sources with CRI higher than 80 according to the current regulations

### Luminous flux

Indicates how much light the source can emit. Basic unit is lumen [lm].

HALOGEN REFLECTOR	8 - 12 lm/W @ CRI100
METALHALOGEN HIGH BAY LUMINAIRES	30 - 70 lm/W @ CRI80
TUBE LUMINAIRES	40 - 80 lm/W @ CRI80
SODIUM STREET LIGHTS	50 - 110 lm/W @ CRI25

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