

FUMAGALLI LED LAMPS

MODULAR SYSTEM



Innovative **TÜV certified LED lamps** with standard E27, GX53 ,R7s, GU10 or G9 lamp holder to get a very efficient LED lighting system. Heatsink and driver are built-in the lamps. LED modules can be easily replaced without the help of a qualified technician. Available in different wattage versions and color temperature. Moreover combining in series Fumagalli GX53 lamps you get a powerful and efficient public lighting system both on classic and modern luminaries.

LVD	EMC	ERP 6000h	RoHS REACH compliant
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BENEFITS:

- **COST SAVING:** long-life and efficient LED light sources.
- **BUILT-IN DRIVER:** quick and easy lamp replacement.
- **GREAT FLEXIBILITY:** standard lamp holder.
- **FUTURE-PROOFED LUMINARIES:** performances easy to upgrade to latest technology developments.
- **SUITABLE FOR OUTDOOR USE:** driver fully protected against heat and humidity by silicone paste.
- **TÜV CERTIFIED QUALITY:** Production monitored, CE marked, LVD and EMC tested, in compliance with the European Ecodesign Directive (ERP) and with RoHS and REACH directives. CB certified.



Power surges resistant

- **Wide voltage range (100-240V)** to protect the driver both from voltage droop and voltage overshoot, which are quite frequent in case of outdoor installations.
- **Double 400V capacitors** and multiple resistances to withstand power surges.
- **Silicone paste** to avoid – in case of voltage swings- the vibration of the electronic components of the driver and the consequent risk of components unsoldering.



Heat resistant - Working temperature -30°+80°C

- **Gold wire bonding:** Chips connected by pure gold wires, which are able to withstand at the highest and lowest temperatures and at temperature fluctuations between day and night. The gold wire bonding can grant a lumens maintenance factor > 80%.
- **Silicone paste:** Thermoconductive silicone paste with metal powder inside for helping heat dissipation and avoid overheating problems and for protecting the electronic components in case of high and low temperatures.

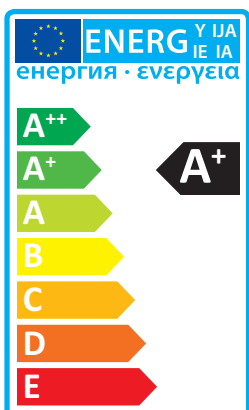


Humidity resistant - Weatherproof driver for a longer lifetime

- **Silicone paste:** The driver is fully enclosed in a special silicone paste, which ensures the highest driver protection against moisture and humidity up to 90%, both unavoidable in outdoor installations.



Tested according to :
EN 62560:2012/A1: 2015
IEC/TR 62778:2014
EN 62493:2015



LVD
TESTED

LVD Certificate: Fumagalli lamps fulfil the Low Voltage Directive 2014/35/EU, therefore are CE marked and comply with safety requirements like protection against electrical shock, moisture and heat resistance, resistance to flame and ignition.

EMC
TESTED

EMC Certificate: Fumagalli lamps meet the Electromagnetic Compatibility Directive 2014/30/EU and its amendments.



ERP
6000 h

ERP Attestation of conformity: Fumagalli lamps fulfil the European Ecodesign Directive 2009/125/EC and EU 2015/1428 about the energy performance requirements of energy related products. Lamp lumen maintenance factor after 6.000 hrs > 80%

CB
IECEE CB SCHEME

IECEE CB Certificate: Fumagalli lamps meet the International System for Conformity and Certification of Electrotechnical Equipment allowing direct market access in more than 50 countries all over the world.

RoHS
REACH
COMPLIANT

RoHS REACH compliant: Fumagalli lamps fulfil the RoHS (Restriction of Hazardous Substances) directive 2011/65/EU and its amendments and the REACH regulation (EC) No. 1907/2006, regarding the concentration of Very High Concern Substances (SVHC).



COMPANY UP&DOWN DOWNLIGHT IN-GROUND BRICKLIGHT FLOODLIGHT BOLLARD BULKHEAD GARDEN URBAN CLASSIC URBAN MODERN POST LAMPS REFERENCES

GX53 LED Ø100mm

TÜV- CB CERTIFIED LED MODULES



SILICONE PROTECTION

DRIVER

INDOOR & OUTDOOR USE

-30 +80 °C 90% HUMIDITY

VOLTAGE SURGE RESISTANT

LENS

- Frosted color lens reducing dazzle.
- Made of UV stabilized resin material to avoid yellowing process.

PCB AND CONNECTION RING

- Special connection ring to avoid PCB deformation under high temperatures and to keep the PCB adhering to the heatsink.
- Special thermoconductive paste for gluing firmly the PCB to the heatsink and for helping the heat dissipation.

GOLD WIRE BONDING

- LED chips connected by pure **gold wires** able to withstand at the highest and lowest temperatures and granting a **lumens maintenance factor > 80%**.
- SMD 3528 LED.



HEATSINK

- Made by white painted aluminum.
- Special design to grant a correct heat dissipation.

DRIVER 100-240V

- IC isolated driver technology.
- Wide voltage range: **100-240V** +/- 10% tolerance to protect the driver both from voltage droop and voltage overshoot.
- **Double 400V capacitors** and multiple resistances to withstand power surges.

GX53 LAMP HOLDER

- Quick and easy lamp replacement and version upgrade.
- Made of PBT material resisting up to 180° and 250V.
- VDE certified.



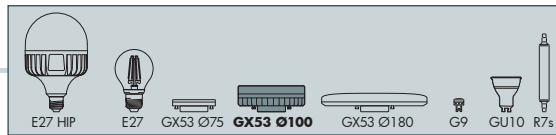
THERMOCONDUCTIVE SILICONE PASTE

- To protect the driver against moisture and humidity up to **90%**, granting a longer product lifetime
- To help heat dissipation thanks to the metal powder inside the paste, granting **-30°+80°C** working temperature.
- To avoid the vibration and the unsoldering of the electronic components of the driver.

CCT SETTABLE

- Switch settable in three different positions, to select the desired Kelvin temperature (3000K, 4000K, 6500K) and get a customized ambiance.
- SDCM < 6.





GX53 Ø100 - CCT SETTABLE		
	7 W	10 W
POWER	7 W	10 W
LUMINOUS FLUX	800 lm	1200 lm
SIZE & SOCKET		
EFFICIENCY	114 Lm/W	120 Lm/W
VOLTAGE	100-240 V	100-240 V
FREQUENCY	50/60 Hz	50/60 Hz
CURRENT	34 mA	48 mA
POWER FACTOR	0,8	0,8
COLOR RENDERING INDEX RA	> 80	> 80
SDCM	< 6	< 6
BEAM ANGLE	120°	120°
WARM UP TIME	0 s	0 s
SWITCHING CYCLE	> 30.000	> 30.000
LIFETIME	25.000 h	25.000 h
KELVIN SETTABLE	3000 K / 4000 K / 6500 K	3000 K / 4000 K / 6500 K
REF. CODE	H2.LED.G53.CCT	H3.LED.G53.CCT
COMPARISON	7W = 75W 800 Lm incandescent SAVE 90%	10W = 100W 1200 Lm incandescent SAVE 90%

ENERGY CLASS
A++
A+
A
B
C
D
E

CCT SETTABLE
3000 K 4000 K 6500 K
SDCM <6

SILICONE PROTECTION DRIVER

INDOOR & OUTDOOR USE

-30 +80 °C 90% HUMIDITY

VOLTAGE SURGE RESISTANT

TUV 900 CB

LVD EMC ERP 6000h

IECEE CB SCHEME

IECEE CB CERTIFICATE: SG PSB-LE-01709

COMPANY
UP&DOWN
DOWNLIGHT
IN-GROUND
BRICKLIGHT
FLOODLIGHT
BOLLARD
BULKHEAD
GARDEN
URBAN CLASSIC
URBAN MODERN
POST
LAMPS
REFERENCES

GX53 LED Ø180mm

TÜV- CB CERTIFIED LED MODULES



SILICONE PROTECTION



INDOOR & OUTDOOR USE


-30 +80 °C 90% HUMIDITY

VOLTAGE SURGE RESISTANT




LENS

- Frosted color lens reducing dazzle.
- Made of UV stabilized resin material to avoid yellowing process.
- Very compact and slim design for a better light distribution and for improving the light efficiency.



GOLD WIRE BONDING

- LED chips connected by pure **gold wires** able to withstand at the highest and lowest temperatures and granting a **lumens maintenance factor > 80%**.
- SMD 3528 LED.





DRIVER 100-240V

- IC isolated driver technology.
- Wide voltage range: **100-240V** +/- 10% tolerance to protect the driver both from voltage droop and voltage overshoot.
- **Double 400V capacitors** and multiple resistances to withstand power surges.



HEAT DISSIPATION

- Special design of the lamp base to grant a proper air circulation and avoid overheating problems.




GX53 LAMP HOLDER

- Quick and easy lamp replacement and version upgrade.
- Made of PBT material resisting up to 180° and 250V.
- VDE and NEMKO certified.




THERMOCONDUCTIVE SILICONE PASTE (11W-18W)

- To protect the driver against moisture and humidity up to **90%**, granting a longer product lifetime
- To help heat dissipation thanks to the metal powder inside the paste, granting **-30°+80°C** working temperature.
- To avoid the vibration and the unsoldering of the electronic components of the driver.

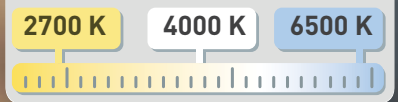


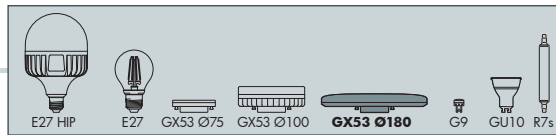

CCT SETTABLE


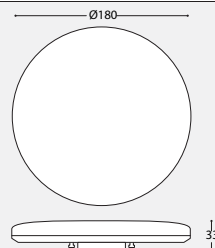
- Switch settable in three different positions, to select the desired Kelvin temperature (2700K, 4000K, 6500K) and get a customized ambiance.
- 2700K, 4000K and 6500K led chips on 3 separate circuits to grant SDCM < 6.


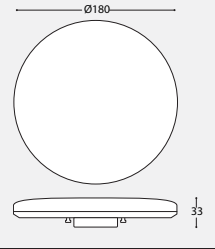


2700 K 4000 K 6500 K



GX53 Ø180 - CCT SETTABLE			
 <p>CCT SETTABLE 2700 K 4000 K 6500 K SDCM <6</p>	<p>ENERGY CLASS A+ A A- B C D E</p>	POWER	7 W
	LUMINOUS FLUX	800 lm	
	SIZE & SOCKET	 <p>GX53</p>	
	EFFICIENCY	114 Lm/W	
	VOLTAGE	100-240 V	
	FREQUENCY	50/60 Hz	
	CURRENT	125 mA	
	POWER FACTOR	0,5	
	CRI (RA)	> 80	
	SDCM	< 6	
<p>INDOOR & OUTDOOR USE -30 +80 °C 90% HUMIDITY VOLTAGE SURGE RESISTANT</p> <p>TUV 900 CE CB LVD EMC ERP 6000h</p> <p>IECEE CB SCHEME IECEE CB CERTIFICATE: SG PSB-LE-02346</p>	<p>ENERGY CLASS A+ A A- B C D E</p>	BEAM ANGLE	90°
	WARM UP TIME	≤ 0,5"	
	SWITCHING CYCLE	30.000	
	LIFETIME	25.000 h	
	KELVIN SETTABLE	2700 K / 4000 K / 6500 K	
	REF. CODE	H6.LED.G53.CCT	
	COMPARISON	<p>7W = 60W 800 Lm incandescent SAVE 88%</p>	
	EFFICIENCY	114 Lm/W	
	VOLTAGE	100-240 V	
	FREQUENCY	50/60 Hz	

GX53 Ø180 - CCT SETTABLE				
 <p>CCT SETTABLE 2700 K 4000 K 6500 K SDCM <6</p>	<p>ENERGY CLASS A+ A A- B C D E</p>	POWER	11 W	18 W
		LUMINOUS FLUX	1300 lm	2000 lm
		SIZE & SOCKET	 <p>GX53</p>	
		EFFICIENCY	118 Lm/W	111 Lm/W
		VOLTAGE	100-240 V	100-240 V
		FREQUENCY	50/60 Hz	50/60 Hz
		CURRENT	140 mA	220 mA
		POWER FACTOR	0,9	0,9
		CRI (RA)	> 80	> 80
		SDCM	< 6	< 6
<p>SILICONE PROTECTION DRIVER</p> <p>INDOOR & OUTDOOR USE -30 +80 °C 90% HUMIDITY VOLTAGE SURGE RESISTANT</p> <p>TUV 900 CE CB LVD EMC ERP 6000h</p> <p>IECEE CB SCHEME IECEE CB CERTIFICATE: SG PSB-LE-02346</p>	<p>ENERGY CLASS A+ A A- B C D E</p>	BEAM ANGLE	90°	90°
	WARM UP TIME	≤ 0,5"	≤ 0,5"	
	SWITCHING CYCLE	> 25.000	> 25.000	
	LIFETIME	25.000 h	25.000 h	
	KELVIN SETTABLE	2700 K / 4000 K / 6500 K	2700 K / 4000 K / 6500 K	
	REF. CODE	H4.LED.G53.CCT	H5.LED.G53.CCT	
	COMPARISON	<p>11W = 100W 1300 Lm incandescent SAVE 89%</p>	<p>18W = 150W 2000 Lm incandescent SAVE 88%</p>	
	EFFICIENCY	118 Lm/W	111 Lm/W	
	VOLTAGE	100-240 V	100-240 V	
	FREQUENCY	50/60 Hz	50/60 Hz	