

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 |
|-----|-----|--------------|----------------------------|



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.

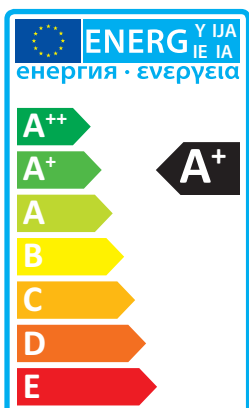


Humidity resistant - Weatherproof driver for a longer lifetime

- **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.

GX53 LAMP HOLDER

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



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.



THERMOCONDUCTIVE SILICONE PASTE

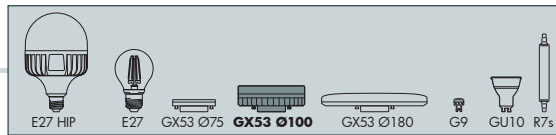
- To protect the driver against moisture and humidity up to **90%**, granting a longer product lifetime
- To help heat dissipation thanks to the metal powder inside the paste, granting **-30°+80°C** working temperature.
- To avoid the vibration and the unsoldering of the electronic components of the 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 | 10W = 100W 1200 Lm incandescent |

ENERGY CLASSIFICATION
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 SUD **CE** **CB**

LVD EMC ERP 6000h

IECEE CB SCHEME

IECEE CB CERTIFICATE: SG PSB-LE-01709