

# 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.

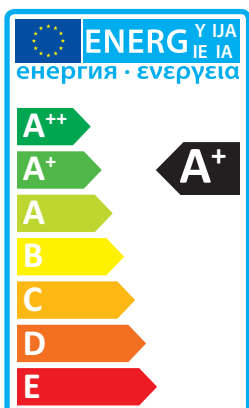


### Humidity resistant - Weatherproof driver for a longer lifetime

- **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

# E27 FILAMENT LED

TÜV- CB CERTIFIED LED MODULES



**SILICONE PROTECTION**



DRIVER

**INDOOR & OUTDOOR USE**


-30 +80 °C    90% HUMIDITY

**VOLTAGE SURGE RESISTANT**




**GOLD WIRE BONDING**

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




**PHOSPHOR DISPENSING**

- Filaments covered by Intermatix phosphor.
- Phosphor dispensed on both side of the filament allowing a better light reflection.



**BULB GLASS**

- Bulb glass with **90% hydrogen gas** inside to help heat dissipation.
- Filament welded and inserted into the glass by an automatic process- instead of by hand- to get a much more precise result.




**SAPPHIRE CHIP SUPPORT**



**CHIP ON CORD TECHNOLOGY**

- Epistar led chips bounded on pure synthetic **sapphire** substrate.
- Improved shock resistance.
- Higher transparency, increased lumen output and better heat dissipation in comparison with glass or ceramic substrate.




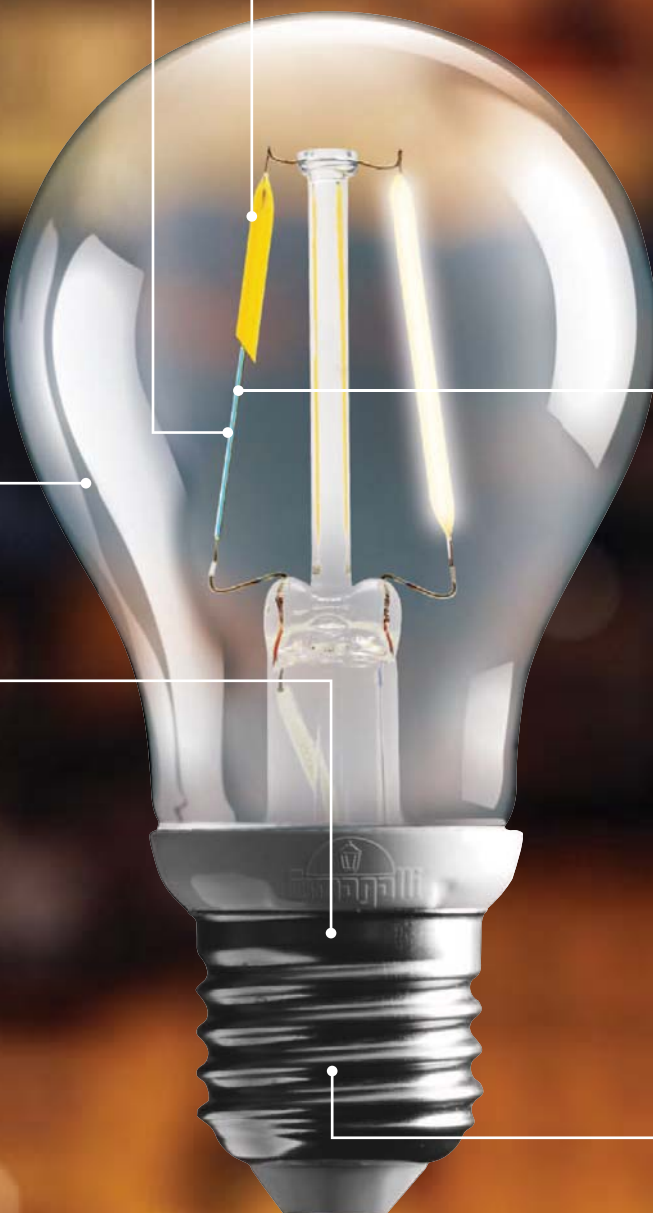
**DRIVER 100-240V**

- 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.

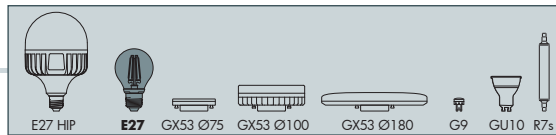



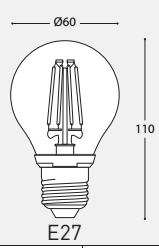


**THERMOCONDUCTIVE SILICONE PASTE**


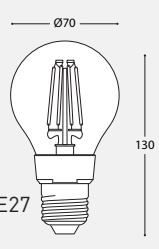


- To protect the driver against moisture and humidity up to **90%**, granting a longer product lifetime
- To help heat dissipation thanks to the metal powder inside the paste, granting **-30°+80°C** working temperature.
- To avoid the vibration and the unsoldering of the electronic components of the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

IECEE CB CERTIFICATE



E27 LED FILAMENT A60		6 W	8 W
 <p><b>ENERG</b> <small>EU</small> энергия • ενεργεια</p> <p>A+ <b>A+</b></p>	POWER		
	LUMINOUS FLUX	<b>800 lm</b> <b>1000 lm</b>	
	SIZE & SOCKET		
	EFFICIENCY	133 Lm/W	125 Lm/W
	VOLTAGE	100-240 V	100-240 V
	FREQUENCY	50/60 Hz	50/60 Hz
	CURRENT	60 mA	76 mA
	POWER FACTOR	> 0,7	> 0,7
	COLOR RENDERING INDEX RA	> 80	> 80
	<p><b>SILICONE PROTECTION DRIVER</b></p> <p><b>INDOOR &amp; OUTDOOR USE</b></p> <p>-30 +80 °C      90% HUMIDITY</p> <p><b>VOLTAGE SURGE RESISTANT</b></p>  <p><b>CE CB</b></p> <p>LVD   EMC   ERP 6000h</p>  <p>IECEE CB CERTIFICATE: SG PSB-LE-01711</p>	SDCM	< 6
BEAM ANGLE		360°	
WARM UP TIME		≤ 0,5"	
SWITCHING CYCLE		> 100.000	
LIFETIME		25.000 h	
KELVIN		4000K      2700 K	4000K      2700 K
REF. CODE		H.LED.FIL.4K      H.LED.FIL.3K	H2.LED.FIL.4K      H2.LED.FIL.3K
COMPARISON		<p><b>6W = 60W</b> 800 Lm      incandescent</p> <p><b>SAVE 90%</b></p> <p><b>8W = 75W</b> 1000 Lm      incandescent</p> <p><b>SAVE 89%</b></p>	

E27 LED FILAMENT A70		12 W
 <p><b>ENERG</b> <small>EU</small> энергия • ενεργεια</p> <p>A+ <b>A+</b></p>	POWER	<b>12 W</b>
	LUMINOUS FLUX	<b>1500 lm</b>
	SIZE & SOCKET	
	EFFICIENCY	125 Lm/W
	VOLTAGE	100-240 V
	FREQUENCY	50/60 Hz
	CURRENT	100 mA
	POWER FACTOR	> 0,7
	COLOR RENDERING INDEX RA	> 80
	<p><b>SILICONE PROTECTION DRIVER</b></p> <p><b>INDOOR &amp; OUTDOOR USE</b></p> <p>-30 +80 °C      90% HUMIDITY</p> <p><b>VOLTAGE SURGE RESISTANT</b></p>  <p><b>CE CB</b></p> <p>LVD   EMC   ERP 6000h</p>  <p>IECEE CB CERTIFICATE: SG PSB-LE-01711</p>	SDCM
BEAM ANGLE		360°
WARM UP TIME		≤ 0,5"
SWITCHING CYCLE		> 100.000
LIFETIME		25.000 h
KELVIN		4000K      2700K
REF. CODE		H3.LED.FIL.4K      H3.LED.FIL.3K
COMPARISON		<p><b>12W = 100W</b> 1500 Lm      incandescent</p> <p><b>SAVE 88%</b></p>