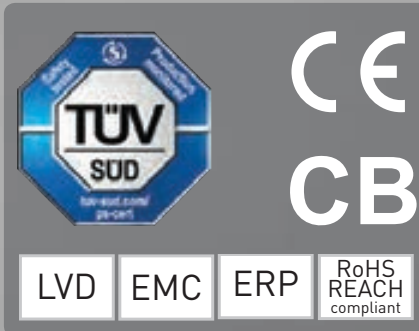


FUMAGALLI LED LAMPS

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.



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.

NEW
ERP

New ERP Attestation of conformity: Fumagalli lamps fulfil the NEW European Ecodesign Directive EU 2019/2020, which sets stricter energy efficiency requirements, new verification tolerances and other factors such as bulb lifetime and warm-up time.

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).



G9 LED

TÜV- CB CERTIFIED LED MODULES

INDOOR & OUTDOOR USE

-30 +80 °C

90%
HUMIDITY

VOLTAGE SURGE
RESISTANT



LENS

- Opal lens made of UV stabilized resin material to avoid yellowing process.
- Designed for granting 110° light distribution and for improving 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.



HEATSINK

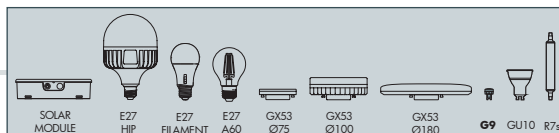
- Made by thermo-conductive ceramic material.
- Special design to grant a correct heat dissipation


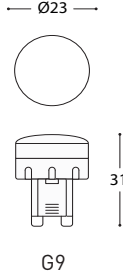

G9 LAMPHOLDER

- Quick and easy lamp replacement and version upgrade.
- Made of steatite material to resist up to 250°.
- ENEC certified.



IECEE CB CERTIFICATE



G9 LED					
	POWER		1,7 W		
	LUMINOUS FLUX (Φ TOTAL)	3000 K	150 lm		
		4000 K	150 lm		
SIZE & SOCKET					
		G9			
<div><div><div>INDOOR & OUTDOOR USE</div><div>-30 +80 °C90% HUMIDITY</div><div>VOLTAGE SURGE RESISTANT</div></div><div><div>ENERG+ FUMAGALLI S.R.L. H.LED.G09.3K</div><div><div>A B C D E F G</div><div>F</div></div><div>2 kWh/1000h</div><div></div><div>2019/2020</div></div><div><div><div>TUV SUD</div><div>CE CB</div><div>LVD EMC ERP</div></div><div><div>IECEE CB SCHEME</div><div>IECEE CB CERTIFICATE: SG PSB-LE-02130</div></div></div></div>	VOLTAGE		100-240 V		
	FREQUENCY		50/60 Hz		
	PSTLM (NO FLICKER)		<1		
	SVM		0,9		
	CRI		> 80		
	SDCM		<6		
	SWITCHING CYCLE		>40.000		
	WARM UP TIME		≤ 0,5"		
	LIFETIME		15.000 h		
	KELVIN		3000 K	4000 K	
	EFFICIENCY CLASS		F	F	
	REF. CODE		H.LED.G09.3K		H.LED.G09.4K