

# 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.

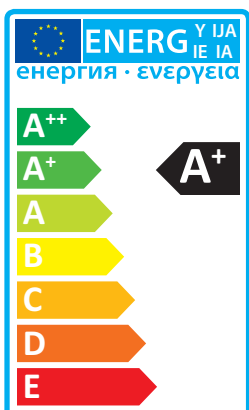


**Humidity resistant - Weatherproof driver for a longer lifetime**

- **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 IEC/IEC 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 HIGH POWER LED

TÜV- CB CERTIFIED LED MODULES



**SILICONE PROTECTION**

DRIVER

**INDOOR & OUTDOOR USE**

-30 +80 °C      90% HUMIDITY

VOLTAGE SURGE RESISTANT

**GOLD WIRE BONDING**

- 120 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.

**LENS**

- Opal color lens reducing dazzle.
- Made of UV stabilized resin material to avoid yellowing process.
- Special lens design for a better light distribution.

**HEATSINK**

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

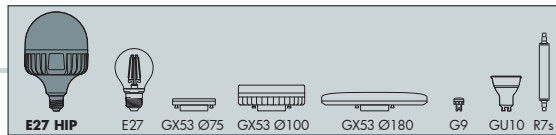
**THERMOCONDUCTIVE SILICONE PASTE**





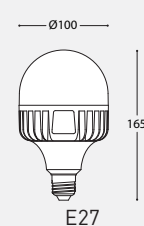
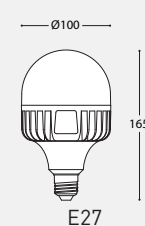




- To protect the driver against moisture and humidity up to **90%**, granting a longer product lifetime
- To help heat dissipation thanks to the metal powder inside the paste, granting **-30°+80°C** working temperature.
- To avoid the vibration and the unsoldering of the electronic components of the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





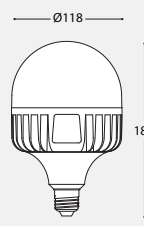
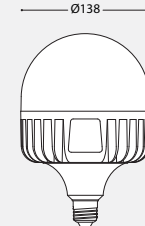




**DRIVER 100-240V**

- 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.





E27 HIGH POWER LED		POWER	15 W	30 W	
 	 <p><b>INDOOR &amp; OUTDOOR USE</b> -30 +80 °C 90% HUMIDITY VOLTAGE SURGE RESISTANT</p>	 <p>IECEE CB CERTIFICATE: SG PSB-LE-01712 SG PSB-LE-01708</p>	LUMINOUS FLUX	<b>1800 lm</b>	<b>3500 lm</b>
			SIZE & SOCKET	 E27	 E27
		EFFICIENCY	120 Lm/W	116 Lm/W	
		VOLTAGE	100-240 V	100-240 V	
		FREQUENCY	50/60 Hz	50/60 Hz	
		CURRENT	130 mA	135 mA	
		POWER FACTOR	> 0,5	> 0,9	
		COLOR RENDERING INDEX RA	> 80	> 80	
		SDCM	< 6	< 6	
		BEAM ANGLE	200°	200°	
		WARM UP TIME	< 0,5"	< 1"	
		SWITCHING CYCLE	30.000	30.000	
		LIFETIME	25.000 h	25.000 h	
		KELVIN	4000 K	3000 K	
		REF. CODE	H3.LED.HIP.4K	H3.LED.HIP.3K	
		COMPARISON	<b>15W 1800 Lm</b>  =  <b>SAVE 85%</b>	<b>30W 3500 Lm</b> = <b>50W</b>  =  <b>SAVE 40%</b>	

E27 HIGH POWER LED		POWER	50 W	60 W	
 	 <p><b>INDOOR &amp; OUTDOOR USE</b> -30 +80 °C 90% HUMIDITY VOLTAGE SURGE RESISTANT</p>	 <p>IECEE CB CERTIFICATE: SG PSB-LE-01707 SG PSB-LE-01705</p>	LUMINOUS FLUX	<b>5300 lm</b>	<b>7000 lm</b>
			SIZE & SOCKET	 E27	 E27
		EFFICIENCY	106 Lm/W	116 Lm/W	
		VOLTAGE	100-240 V	100-240 V	
		FREQUENCY	50/60 Hz	50/60 Hz	
		CURRENT	210 mA	290 mA	
		POWER FACTOR	> 0,9	> 0,9	
		COLOR RENDERING INDEX RA	> 80	> 80	
		SDCM	< 6	< 6	
		BEAM ANGLE	200°	200°	
		WARM UP TIME	< 1"	< 0,5"	
		SWITCHING CYCLE	30.000	30.000	
		LIFETIME	25.000 h	25.000 h	
		KELVIN	4000 K	3000 K	
		REF. CODE	H.LED.HIP.4K	H.LED.HIP.3K	
		COMPARISON	<b>50W 5300 Lm</b> = <b>70W</b>  =  <b>SAVE 30%</b>	<b>60W 7000 Lm</b> = <b>100W</b>  =  <b>SAVE 40%</b>	