

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

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.

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).



GX53 LED Ø75mm

TÜV- CB CERTIFIED LED MODULES



INDOOR & OUTDOOR USE

-30 +80 °C

90% HUMIDITY

VOLTAGE SURGE RESISTANT



PCB AND CONNECTION RING

- Special connection ring to avoid the PCB deformation under high temperatures and to keep the PCB adhering to the heatsink.



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.
- High quality capacitors and multiple resistances able to withstand power surges.



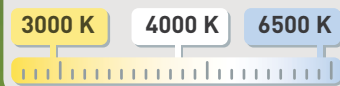
GX53 LAMPHOLDER

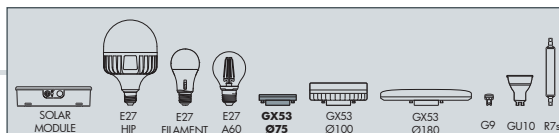
- Quick and easy lamp replacement and version upgrade.
- Made of PBT material resisting up to 180° and 250V.
- VDE certified.



CCT SETTABLE

- Switch settable in three different positions, to select the desired Kelvin temperature (3000K, 4000K, 6500K) and get a customized ambiance.
- 3000K, 4000K and 6500K led chips on 3 separate circuits to grant SDCM < 6.





GX53 LED Ø75mm- CCT SETTABLE			
	POWER		3 W
	LUMINOUS FLUX (Φ TOTAL)	3000 K	405 lm
		4000 K	410 lm
		6500 K	410 lm
	SIZE & SOCKET		
CCT SETTABLE INDOOR & OUTDOOR USE -30 +80 °C 90% HUMIDITY VOLTAGE SURGE RESISTANT	LUMINOUS FLUX (Φ USE 120°)		335 lm
	VOLTAGE		100-240 V
	FREQUENCY		50/60 Hz
	PSTLM (NO FLICKER)		< 1
	SVM		0,4
	CRI		> 80
	SDCM		<6
	BEAM ANGLE		112°
	SWITCHING CYCLE		> 30.000
	WARM UP TIME		0s
	LIFETIME		25.000 h
	EFFICIENCY CLASS		E
	REF. CODE		H.LED.G53.CCT

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.



CCT SETTABLE

- Switch settable in three different positions, to select the desired Kelvin temperature (3000K, 4000K, 6500K) and get a customized ambiance.
- 3000K, 4000K and 6500K led chips on 3 separate circuits to grant SDCM < 6.



DRIVER 100-240V

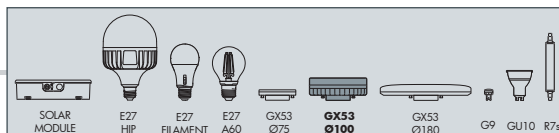
- IC isolated driver technology.
- Wide voltage range: **100-240V** +/- 10% tolerance to protect the driver both from voltage droop and voltage overshoot.
- **Double 400V capacitors** and multiple resistances to withstand power surges.



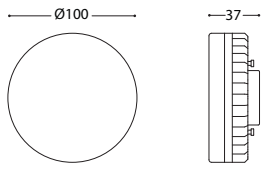
THERMOCONDUCTIVE SILICONE PASTE

- 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.





GX53 LED Ø100mm - CCT SETTABLE

		POWER	10W	
		LUMINOUS FLUX (Φ TOTAL)	3000 K	1190 lm
			4000 K	1290 lm
			6500 K	1210 lm
SIZE & SOCKET		 GX53		
CCT SETTABLE SDCM <6 3000 K 4000 K 6500 K SILICONE PROTECTION DRIVER INDOOR & OUTDOOR USE -30 +80 °C 90% HUMIDITY VOLTAGE SURGE RESISTANT ENERGY FUMAGALLI SRL H. LEDGX53.LCCT(V2) A B C D E F G E 10 kWh/1000h COMPLY WITH: EU 2019/2015 EU 2019/2020 TUV SUD CE LVD CB EMC ERP IECEE IECEE CB CERTIFICATE: SG PSB-LE-03887		LUMINOUS FLUX (Φ USE 120°)	975 lm	
		VOLTAGE	100-240 V	
		FREQUENCY	50/60 Hz	
		DISPLACEMENT FACTOR	>0,5	
		PSTLM (NO FLICKER)	< 1	
		SVM	0,4	
		CRI	> 80	
		SDCM	<6	
		BEAM ANGLE	112°	
		SWITCHING CYCLE	> 30.000	
		WARM UP TIME	0s	
		LIFETIME	25.000 h	
		EFFICIENCY CLASS	E	
		REF. CODE	H3.LED.G53.CCT	