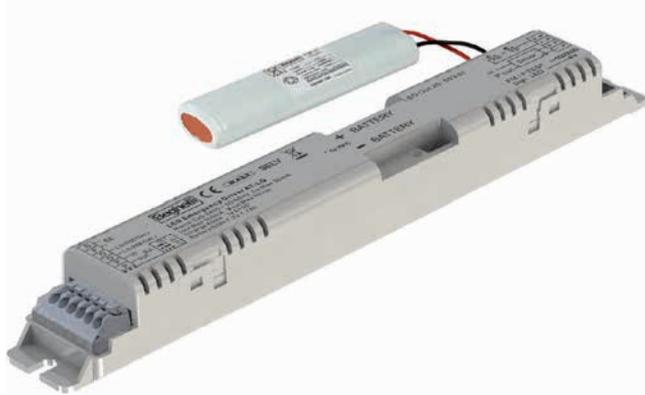


Inverter LED Extreme



ULTIMATE

GENERAL CHARACTERISTICS

Max output power	15 W*
Power supply	230 V _{AC} 50 Hz
Operation	SA (Maintained), RM (rest mode with code 12101)
Standard	EN 61347-2-7, EN 61347-2-13, EN 61347-1, EN 62034
Protection grade	IP20 (according to the fixture in which it is mounted), IP65
Autonomy	45 min., 1 h, 2 h, 3 h, 8 h
Output voltage	3V – 55V
Peak output current	500 mA
Recharging Time	24 h
Working temp.	-20 °C ÷ + 50 °C (LTO Battery) -10 °C ÷ + 60 °C (LiFe Battery) -20 °C ÷ + 70 °C (Inverter)
Recharging current	105 mA
Status Led	Bi-color
Auto test	Compatible with test button in the AT configuration
Housing	Polycarbonate

Electronic control gear for emergency lighting to light LED modules. The emergency duration does not depend from the load and it is selectable in 1 h, 2h, 3h or 8h.

The control of the output current with PWM modulation at a constant peak current allows the best control of the LED module, avoiding effects of distortion of the light flux and of the LED colour temperature. Maximum versatility for a LED conversion kit. Self-adapting output voltage with automatic load recognition. Output power independent of the connected LED module. The disconnection by relay of the power supply arriving from the driver and of the LED circuit make the Beghelli LED conversion kit a universal product, compatible with all drivers.

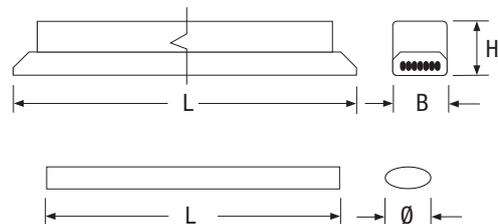
If not reach by the communication bus, the LG version automatically performs self-diagnosis (Autotest).

Available in two different versions; with LTO batteries (suggested for environments where temperature reaches a range -20÷+50°C, with 10 warranty years) and with LiFe batteries (suggested for environments where temperature reaches a range -10 ÷ +60°C, with 5 warranty years).

An additional battery can be supplied when there is the need to double the autonomy at a certain load.



model IP20



	Battery Inverter dimensions (mm)			Battery dimensions (mm)			Weight max kg
	L	B	H	L	Ø	H	
LTO	232	30	26	198	37	19	0.3
LiFe	232	30	26	132	37	19	0.3

model IP65



IP	Dimensions Inverter (mm)			Weight max kg
	L	B	H	
65	301	139	55	0.8

Accessories

to be ordered separately

Order code	Description
19375	MODULE LGFM INVERTER LED
19376	COVER IP65
415439001	SUPPLEMENTARY BATTERY LTO 14.4 V 1.2 Ah
415440001	SUPPLEMENTARY BATTERY LiFe 12.8 V 1.5 Ah

EXAMPLE OF CALCULATION OF THE EMERGENCY LUMINOUS FLUX FOR 100 LED (SMART DRIVER) WITH LED INVERTER WITH 1 HOUR OF AUTONOMY (CODE 19355)

The LED inverter enables optimum lighting performance to be obtained from the device on which it is installed. Below is the method of calculation used to calculate the nominal flux that can be obtained in an emergency (example provided)

$$\text{Flux} = P \text{ inverter} \times \frac{F_n}{P_n} \text{ where:}$$

P = Inverter nominal power (in the 1h model = 6 W)
 F_n = Device nominal flux (for BS100 LED = 7 500 lm)
 P_n = LED nominal power (for BS100 LED = 59 W)

Emergency Flux = 1 271 lm

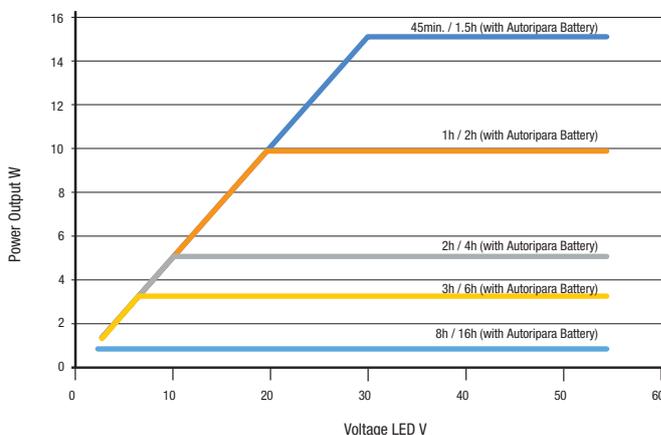
With Autoripara Battery:

P = Inverter nominal power (in the 1,5h model = 15 W)
 F_n = Device nominal flux (for BS100 LED = 7 500 lm)
 P_n = LED nominal power (for BS100 LED = 59 W)

Emergency Flux = 1 906 lm



The output power is subjected to the maximum current of 500mA (i.e. the inverter set at 1h autonomy provides an output of 10W only if connected to a LED with V_{led} > 20 Volt). Below this voltage, the power reduces as per this graph.



Titanium Battery

1 QUICK CHARGING: the autonomy of the device on which it is installed can reach up to 80% in less than 2 hours

2 Withstands extreme operating temperatures: -20 °C ÷ +50 °C

3 LONG LIFE with at least 7,000 charge cycles guaranteed, devices can boast 10 years of useful life

4 MAXIMUM SAFETY: unlike normal Lithium batteries, the material used on these accumulators renders them particularly safe, even when a short circuit or perforation occurs

Autoripara Battery

- 1 SAFETY:** the AUTORIPARA system intervenes if the main battery fails.
- 2 LUMINOUS FLUX:** operators can choose to set both batteries to operate simultaneously, doubling the luminous flux.
- 3 AUTONOMY:** operators can choose to set both batteries to operate simultaneously, doubling the autonomy of the device.

AT-LG
Logica

	W	Order code	Description	Control	Model	Autonomy	Autonomy with Autoripara Battery	Battery	Absorption max W	Pack
ULTIMATE	15*	19390	INVERTER EXT AT/LG 10W 55V 0.75-123-8h LTO	AT/LG	SA	0.75-1-2-3-8H	1.5-2-4-6-16H	LTO 14.4V 1.2Ah	2	1
	15*	19391	INVERTER EXT AT/LG 10W 55V 0.75-123-8h LiFe	AT/LG	SA	0.75-1-2-3-8H	1.5-2-4-6-16H	LiFe 12.8V 1.5Ah	2	1

* 15W power can be obtained by setting autonomy at the minimum value: 0.75h or 1.5h with Autoripara Battery