


| Model | Code | Colour | CCT / λ |
|-------------|------------|------------|---------|
| HM150-3CW12 | HTL 000729 | Cool white | 8000 k |
| HM150-3W12 | HTL 000725 | White | 6500 k |

Features

| | |
|---|---|
| Module operating Voltage | DC 12 V |
| Wattage (W/Module) | 1,5 W |
| International protection level | IP66 / IP67 |
| Operating temperature range | -40 C° ~ +60 C° |
| Storage temperature range | +5 C° ~ +40 C° |
| Storage environment humidity | RH < 60% |
| IEC protection class (with SELV power supply) | Class III |
| Distance (Centre Module / Module) | 250 mm. |
| Viewing angle | 165° |
| Life time (temperature Tc = 75 °C) | 50.000h (L70) |
| Consistent white light | < 3 SDCM |
| Chain (No. Modules) | 40 pcs |
| Bag (No. Modules) | 80 pcs |
| Warranty (See terms and conditions) |  5 Years |

Description

The new “GEMMA” series includes a wide range of LED modules for sign lighting. The exclusive optics with prisms, the high efficiency LEDs and low luminous decay, allow to reduce the quantity of modules required per square meter compared to common modules and to illuminate in a homogeneous and efficient way with significant energy saving.

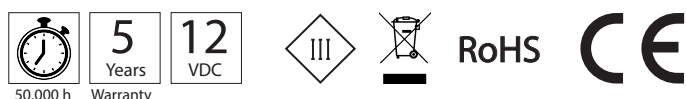
The innovative sturdy structure and the facilitated removal of adhesive protection, significantly reduce installation and maintenance costs.

Applications

- Large size channel letters illumination.
- Backlighting of single sided light boxes, depth 120 to 200 mm.
- Linear lighting.
- Architectural and decorative applications.

Benefits

- The new prismatic optics not only optimally diffuse the light, but it minimize the dispersion allowing a conspicuous increasing of the efficiency and luminous homogeneity.
- The 3M VHB adhesive with the special protective film removal tab offers greater security and speed in fixing operations, contributing to cost reduction.
- Consistent white light 3-step MacAdam.
- Color rendering index Ra: >80.
- Production date is marked on back of module for traceability.



Data sheet

Electrical Datas

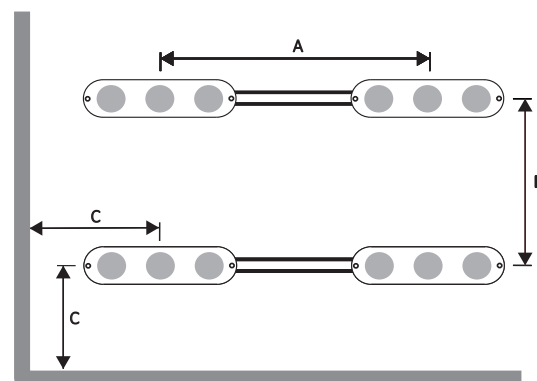
| Model | Nominal voltage | Voltage range | Accidental reverse input voltage protection up to | Nominal wattage per chain | Nominal wattage per module |
|-------------|-----------------|---------------|---|---------------------------|----------------------------|
| HM150-3CW12 | 12 VDC | 11...13 VDC | 13 VDC | 60 W | 1,5 W |
| HM150-3W12 | 12 VDC | 11...13 VDC | 13 VDC | 60 W | 1,5 W |

Photometrical Datas





| Model | Colour | Colour temperature CCT / λ | Color rendering index | Typical Luminous flux | Typical luminous efficiency |
|-------------|------------|----------------------------|-----------------------|-----------------------|-----------------------------|
| HM150-3CW12 | Cool white | 8000 k ±5% | > 80 | 159 Lm | 106 Lm/W |
| HM150-3W12 | White | 6500 k ±5% | > 80 | 159 Lm | 106 Lm/W |

Modules positioning (approximate indications)

| Light box depth | A | B | C |
|-----------------|---------|---------|---------|
| 120 mm | 200 mm. | 180 mm. | 90 mm. |
| 130 mm. | 200 mm. | 200 mm. | 100 mm. |
| 140 mm. | 220 mm. | 220 mm. | 110 mm. |
| 150 mm. | 250 mm. | 250 mm. | 130 mm. |
| 170 mm. | 250 mm. | 270 mm. | 140 mm. |
| 180 mm. | 250 mm. | 300 mm. | 150 mm. |
| 200 mm. | 250 mm. | 320 mm. | 160 mm. |



This product comply with the following European Standard: (download pdf)

-  EMC - Directive 2014/30/EU
EN 55015:2013/A1:2015
EN 61547:2009
-  General safety requirement for luminaires
EN 60598-2-20:2015 used in conjunction with EN 60598-1:2015+A1:2018
EN 62031:2020. IEC TR 62778:2014
-  RoHS - Directive 2011/65/EU
IEC 62031
-  IP protection
IEC 60529:1989+A1:1999+A2:2013