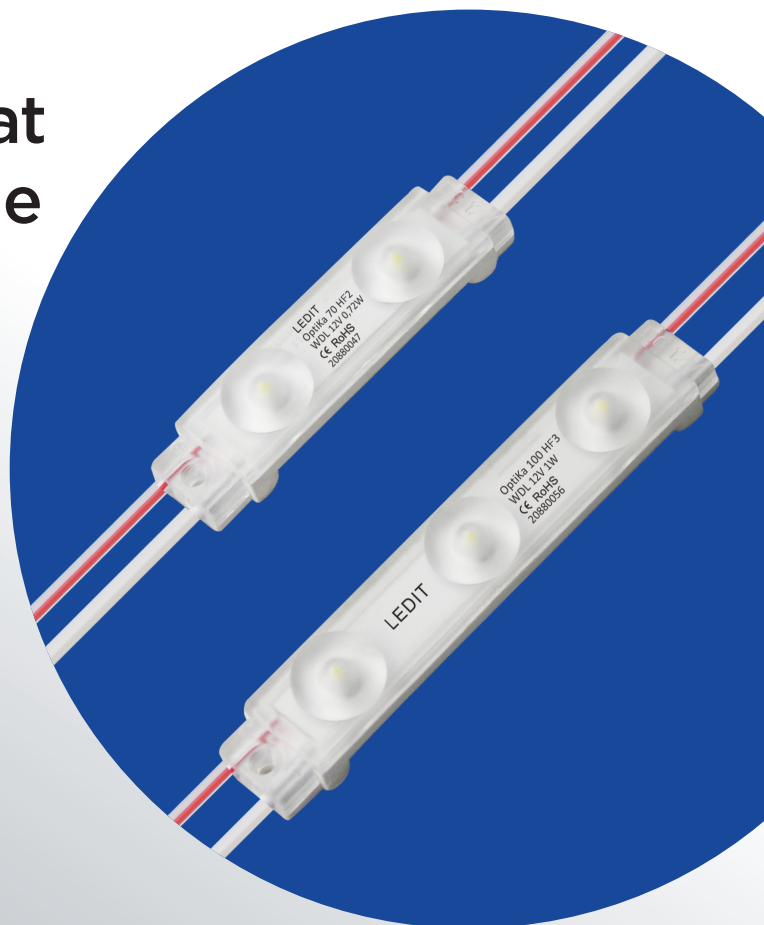


Optika[®] HF

SIGNAGE - Backlighting

70 100

Top Value and Premium Optics, LED modules that magnify your bottom line

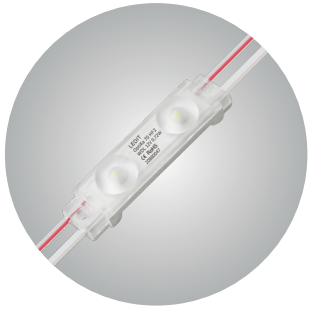


5 YEARS
50.000hrs
L50

- Very flat and robust IP66 design
- Great performance/price ratio
- Very-efficient: Up to 101 lm/W
- Available in 5 Whites and 5 Colors

OptiKa[®] HF SIGNAGE - Backlighting

70 HF2



5 YEARS
50.000hrs
L50



IP66



160°



50 MOD. MAX
IN SERIES



CUTTABLE
EVERY 1 MOD.



NO NEED



12 V/DC



11 TO 14V



8 TO 5
MOD./ML



42 TO 21
MOD./M2



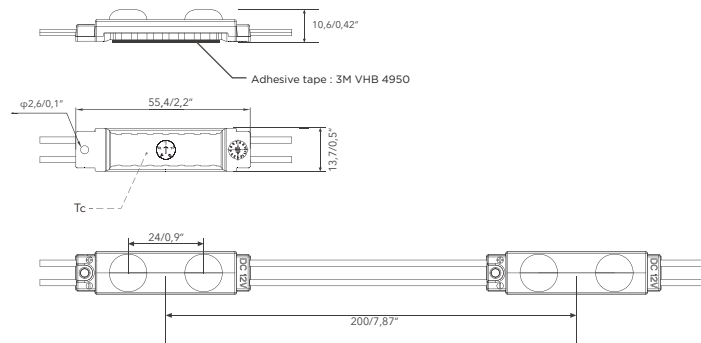
-25°/+55°C

TECHNICAL DATA

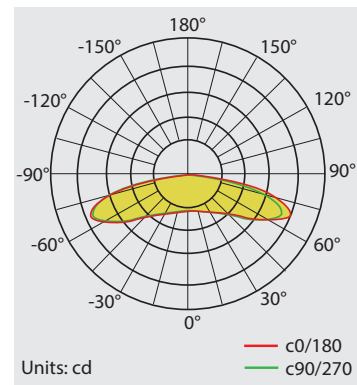
Code	Designation	Color Temperature / Wavelength	Typical power / mod (W)	Lumen output (lm/mod.)	Efficiency (lm/W)	Mod/chain	Mod distance - axe to axe (mm / in)
20880045	OptiKa 70 HF2 XW 50mod 200mm 0,72W 12V IP66	XW 10000-13000K	0,72	59	82	50	200±5 / 7,87"
20880046	OptiKa 70 HF2 OW 50mod 200mm 0,72W 12V IP66	OW 7000-8000K	0,72	65	90	50	200±5 / 7,87"
20880047	OptiKa 70 HF2 WDL 50mod 200mm 0,72W 12V IP66	WDL 5500-6500K	0,72	69	96	50	200±5 / 7,87"
20880048	OptiKa 70 HF2 NW 50mod 200mm 0,72W 12V IP66	NW 4000-4500K	0,72	68	95	50	200±5 / 7,87"
-	OptiKa 70 HF2 WW 50mod 200mm 0,72W 12V IP66	WW 2800-3200K	0,72	65	90	50	200±5 / 7,87"
20880049	OptiKa 70 HF2 R 50mod 200mm 0,72W 12V IP66	R 620-630nm	0,72	12	17	50	200±5 / 7,87"
20880050	OptiKa 70 HF2 G 50mod 200mm 0,72W 12V IP66	G 518-523nm	0,72	30	42	50	200±5 / 7,87"
20880051	OptiKa 70 HF2 B 50mod 200mm 0,72W 12V IP66	B 465-470nm	0,72	8	12	50	200±5 / 7,87"
20880078	OptiKa 70 HF2 O 50mod 200mm 0,72W 12V IP66	O 600-610nm	0,72	11	15	50	200±5 / 7,87"
20880076	OptiKa 70 HF2 P 50mod 200mm 0,72W 12V IP66	P 447,5-450nm	0,72	20	28	50	200±5 / 7,87"

*This reference has 3-year warranty.

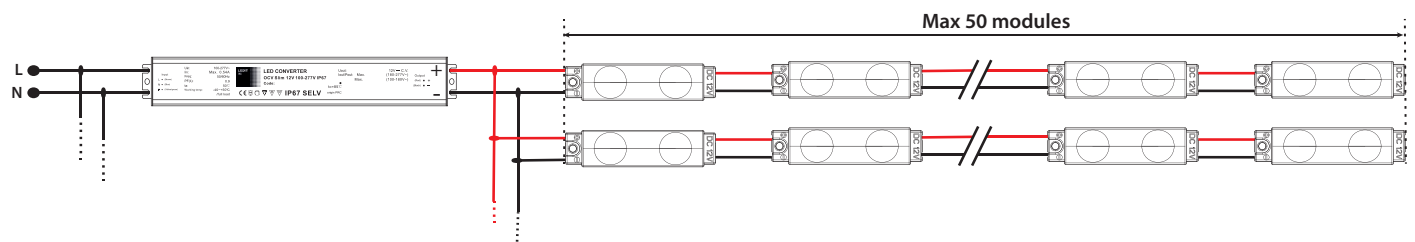
DIMENSIONS



LIGHT DISTRIBUTION



WIRING DIAGRAM





5 YEARS
50.000hrs
L50



IP66



160°



20 MOD. MAX
IN SERIES



CUTTABLE
EVERY 1 MOD.



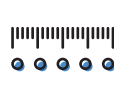
NO NEED



12 V/DC



11 TO 14V



5,7 TO 7
MOD./ML



15 TO 30
MOD./M2

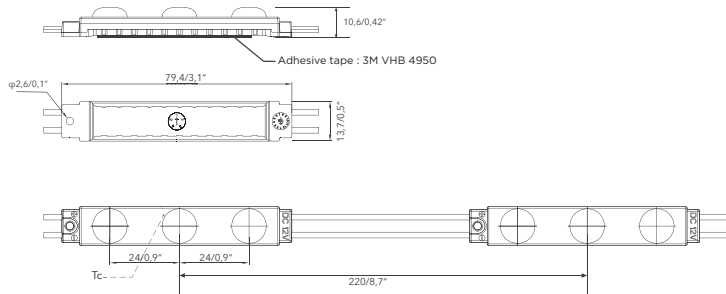


-25°/+55°C

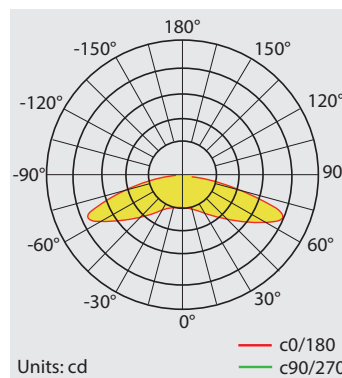
TECHNICAL DATA

Code	Designation	Color Temperature / Wavelength	Typical power / mod (W)	Lumen output (lm/mod.)	Efficiency (lm/W)	Mod/chain	Mod distance - axe to axe (mm / in)
20880052	OptiKa 100 HF3 XW 20mod 220mm 1W 12V IP66	XW 10000-13000K	1	89	89	20	220±5 / 8,7"
20880094	OptiKa 100 HF3 UW 20mod 220mm 1W 12V IP66	UW 8500-10500K	1	95	95	20	220±5 / 8,7"
20880055	OptiKa 100 HF3 OW 20mod 220mm 1W 12V IP66	OW 7000-8000K	1	95	95	20	220±5 / 8,7"
20880056	OptiKa 100 HF3 WDL 20mod 220mm 1W 12V IP66	WDL 5500-6500K	1	101	101	20	220±5 / 8,7"
20880057	OptiKa 100 HF3 NW 20mod 220mm 1W 12V IP66	NW 4000-4500K	1	101	101	20	220±5 / 8,7"

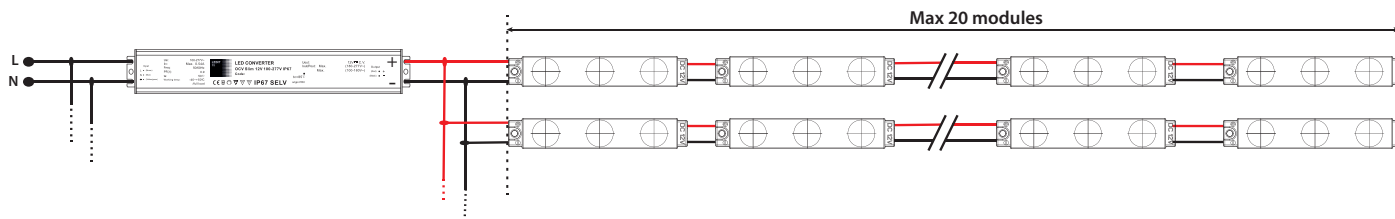
DIMENSIONS



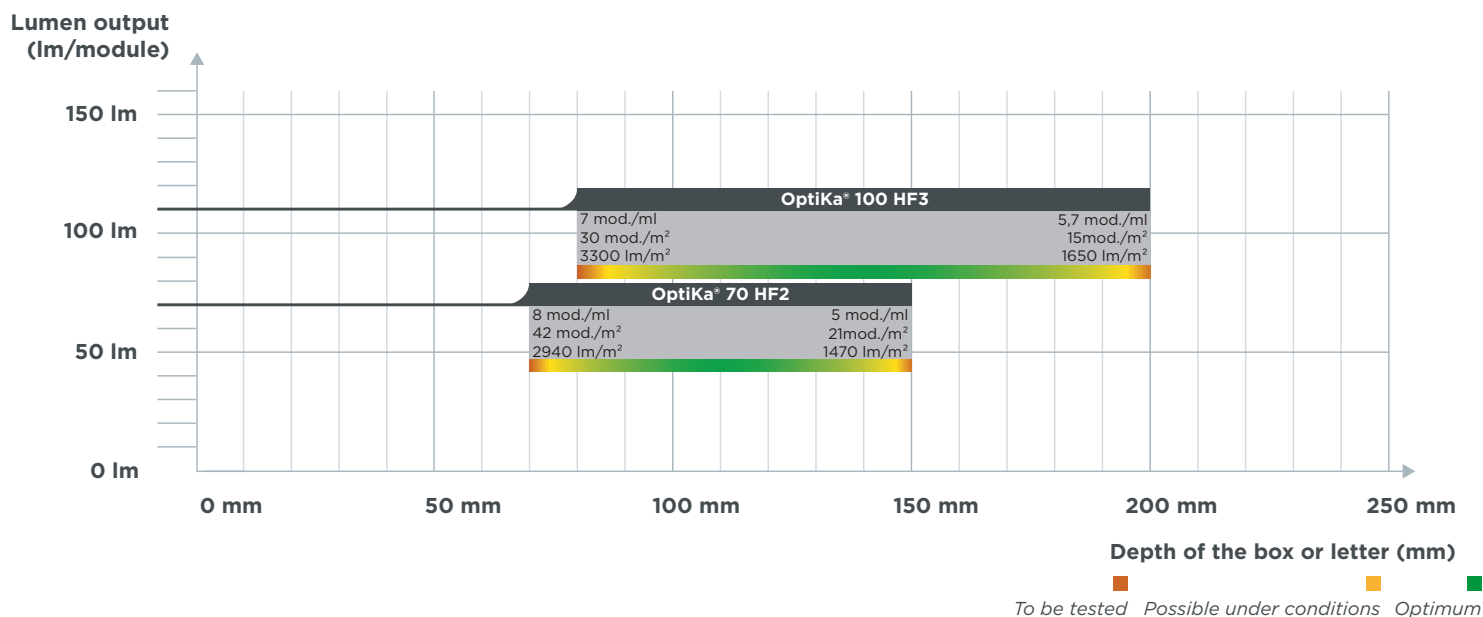
LIGHT DISTRIBUTION



WIRING DIAGRAM



APPLICATION



INSTALLATION

- ▶ Always connect the LED modules to the power supply while it is OFF. Only then you can connect the power supply to electricity and turn it ON.
- ▶ Respect the maximum number of modules in a row.
- ▶ Check compatibility between LED and driver voltage.
- ▶ Install LED on a clean work station connected to the earth. All LEDs are sensitive to static electricity (ESD).
- ▶ Limit the cable length between LED and power supply (voltage drop).
- ▶ Secure LED module lines with mechanical fixation (screws, glue ...) in addition to the adhesive tape.

INGRESS PROTECTION IP66

The product is designed to be used Indoors or Outdoors.

The specified environmental protection of the LED module enclosure means that:

It is totally protected against the ingress of dust, and protected against powerful water jets (100 liters per minute) projected by a nozzle against enclosure from any direction.

Make sure that the application (sign, box, etc.) where the LED modules are installed into, has proper drain holes for water to exit so that LED modules and any other electronic components are not submerged exceeding the IP66 certification limits.

NORMS & CERTIFICATES

- ▶ EN 55015:2013+A1:2015
- ▶ EN 61547:2009
- ▶ EN 61000-3-2:2014
- ▶ EN 61000-3-3:2013
- ▶ EN 62031:2008+A1:2013+A2:2015



THERMAL BEHAVIOUR

The temperature limits indicated below are expressed in °C, at full load, after 3h of operation conditions, with natural convection:

- ▶ Operation temperature Ta -25°C to +55°C
- ▶ Storage temperature Ts -25°C to +70°C
- ▶ Max. temperature Tc point +60°C

The life of the module will decrease when the maximum temperature limits are exceeded.

Operating for a continuous extended time at temperatures exceeding the maximum limits, the modules can fail and our warranty will be void.

WHITE TOLERANCE

In order to ensure there is no color difference visible to the human eyes:

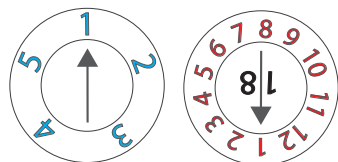
- ▶ Tolerance of LEDs are Macadam ellipse 5 for white LEDs.

FAILURE RATE

Our LED system has a max failure rate of 0.2% per 1000 operating hours.

IDENTIFICATION

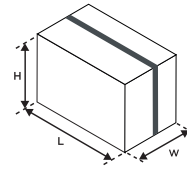
You can find the following production date code at the back of the module.



Production month **1**
 Production week **1**
 Production year **2018**

PACKAGING

Type	SIZE - LxWxH (cm)	SIZE - LxWxH (ft)	Weight (kg)	Weight (lb)	Units
OptiKa 70 HF2	52x37x26	1,7x1,2x0,8	15,5	23,4	28
OptiKa 100 HF3	52x37x26	1,7x1,2x0,8	14,2	31,3	50



(When the min and max values are not indicated, the tolerance range for optical and electrical data is $\pm 15\%$.)