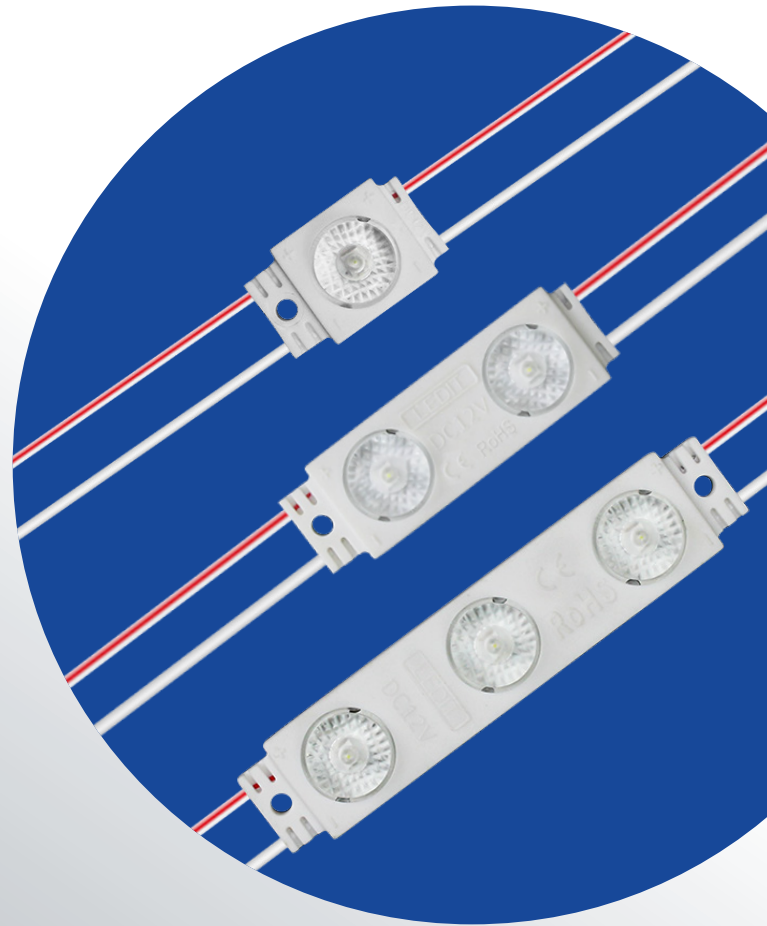


# Optika<sup>®</sup> HF

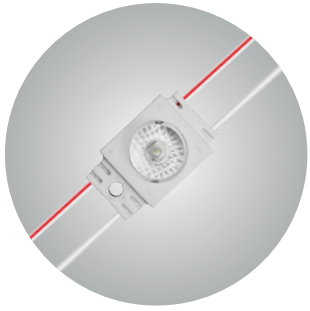
SIGNAGE - Backlighting ——— 60 120 180 HF ———

Top value modules  
with unique optics to  
safely magnify your  
profits from the start.



**5 YEARS**  
**50.000hrs**  
**L50**

- High efficiency: up to 120 lm/W
- Very uniform distribution:  
170° IRISLENS special design
- 60 lumens per light point
- 12V, IP66, 4 White CCTs and 3 colors



**5 YEARS**  
**50,000hrs**  
**L50**



IP66



170°



100 MOD. MAX  
IN SERIES



CUTTABLE  
EVERY 1 MOD.



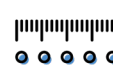
NO NEED



12 V/DC



CC



6 TO 12  
MOD./ML



30 TO 99  
MOD./M<sup>2</sup>

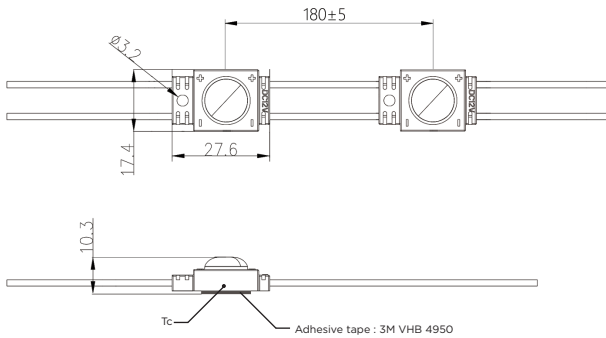


-25° to +55°C

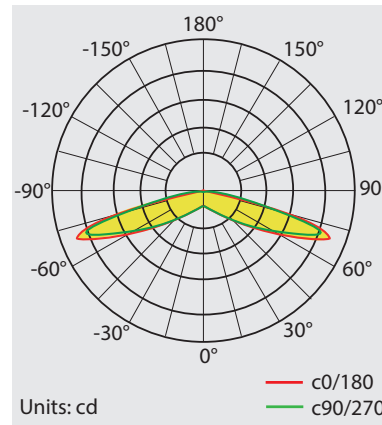
### TECHNICAL DATA

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)
20880149	OptiKa 60 HF1 OW 100mod 180mm CC 0,5W 12V IP66	○ OW 6800-7800K	0,5	60	120	100	180±5/7"
20880150	OptiKa 60 HF1 WDL 100mod 180mm CC 0,5W 12V IP66	○ WDL 6000-7000K	0,5	60	120	100	180±5/7"
20880151	OptiKa 60 HF1 NW 100mod 180mm CC 0,5W 12V IP66	○ NW 3700-4500K	0,5	57,5	115	100	180±5/7"
20880152	OptiKa 60 HF1 WW 100mod 180mm CC 0,5W 12V IP66	○ WW 2700-3200K	0,5	57,5	115	100	180±5/7"
20880169	OptiKa 60 HF1 R 100mod 180mm CC 0,5W 12V IP66	● R 620-630nm	0,5	15	30	100	180±5/7"
20880170	OptiKa 60 HF1 G 100mod 180mm CC 0,5W 12V IP66	● B 520-525nm	0,5	27	54	100	180±5/7"
20880171	OptiKa 60 HF1 B 100mod 180mm CC 0,5W 12V IP66	● G 455-460nm	0,5	9	18	100	180±5/7"

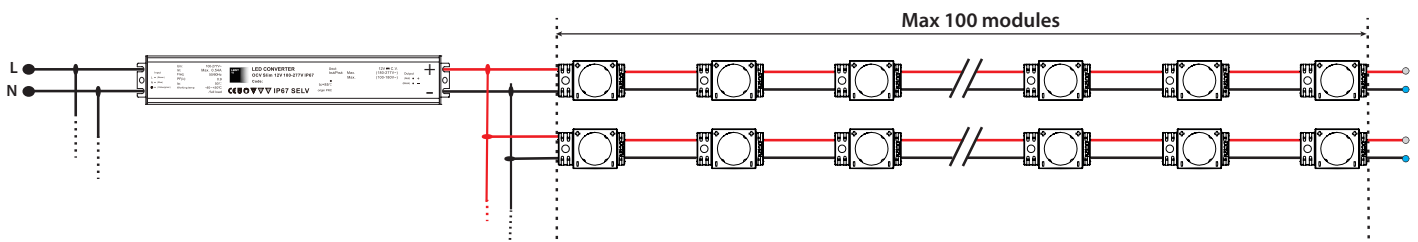
### DIMENSIONS

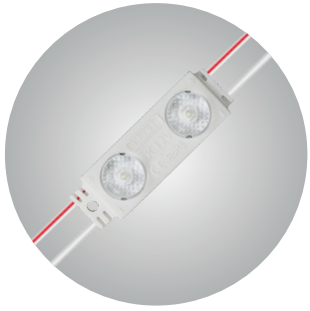


### LIGHT DISTRIBUTION



### WIRING DIAGRAM





**5 YEARS**  
50,000hrs  
L50



IP66



170°



60 MOD. MAX  
IN SERIES



CUTTABLE  
EVERY 1 MOD.



NO NEED



12 V/DC



11 TO 14V



5 TO 9  
MOD./ML



20 TO 63  
MOD./M<sup>2</sup>

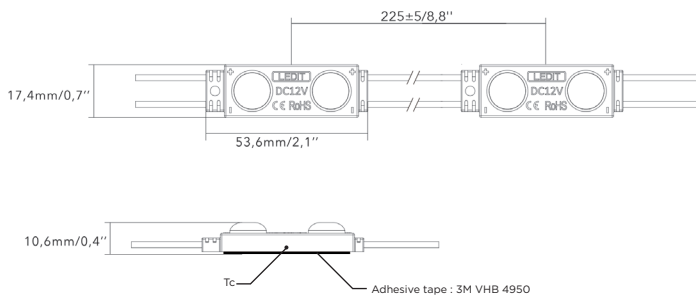


-25° to +55°C

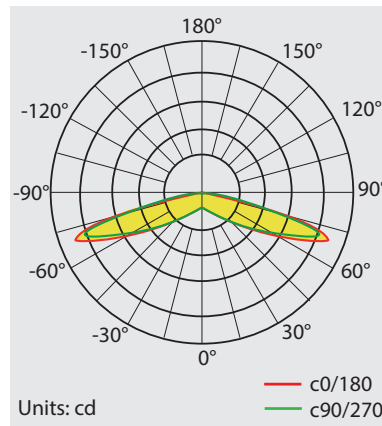
### TECHNICAL DATA

Code	Designation	Color Temperature / Wavelength	Typical power / mod (W)	Lumen output (lm/mod.)	Efficiency (lm/W)	Mod/chain	Mod distance - axle to axle (mm / in)
20880153	OptiKa 120 HF2 OW 60mod 225mm CC 1W 12V IP66	OW 6800-7800K	1	120	120	60	225±5/8,8"
20880154	OptiKa 120 HF2 WDL 60mod 225mm CC 1W 12V IP66	WDL 6000-7000K	1	120	120	60	225±5/8,8"
20880155	OptiKa 120 HF2 NW 60mod 225mm CC 1W 12V IP66	NW 3700-4500K	1	115	115	60	225±5/8,8"
20880156	OptiKa 120 HF2 WW 60mod 225mm CC 1W 12V IP66	WW 2700-3200K	1	115	115	60	225±5/8,8"

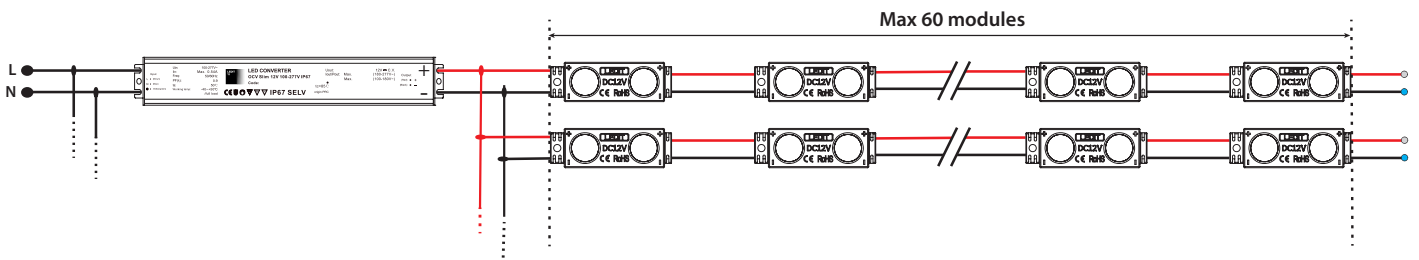
### DIMENSIONS



### LIGHT DISTRIBUTION



### WIRING DIAGRAM





**5 YEARS**  
**50,000hrs**  
**L50**



IP66



170°



40 MOD. MAX  
IN SERIES



CUTTABLE  
EVERY 1 MOD.



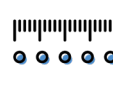
NO NEED



12 V/DC



11 TO 14V



3 TO 7  
MOD./ML



13 TO 32  
MOD./M<sup>2</sup>

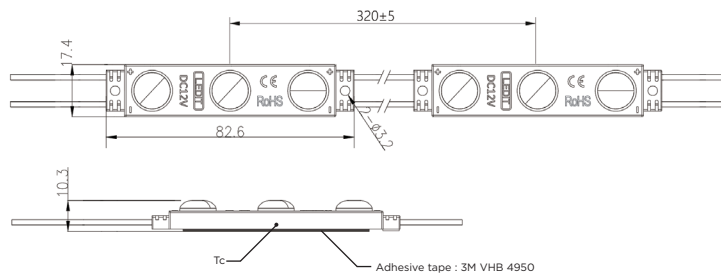


-25° to +55°C

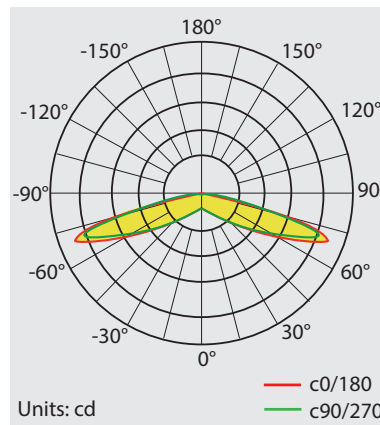
### TECHNICAL DATA

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)
20880157	OptiKa 180 HF3 OW 40mod 320mm CC 1,5W 12V IP66	○ OW 6800-7800K	1,5	180	120	40	320±5/12,6"
20880158	OptiKa 180 HF3 WDL 40mod 320mm CC 1,5W 12V IP66	○ WDL 6000-7000K	1,5	180	120	40	320±5/12,6"
20880159	OptiKa 180 HF3 NW 40mod 320mm CC 1,5W 12V IP66	○ NW 3700-4500K	1,5	172,5	115	40	320±5/12,6"
20880160	OptiKa 180 HF3 WW 40mod 320mm CC 1,5W 12V IP66	○ WW 2700-3200K	1,5	172,5	115	40	320±5/12,6"

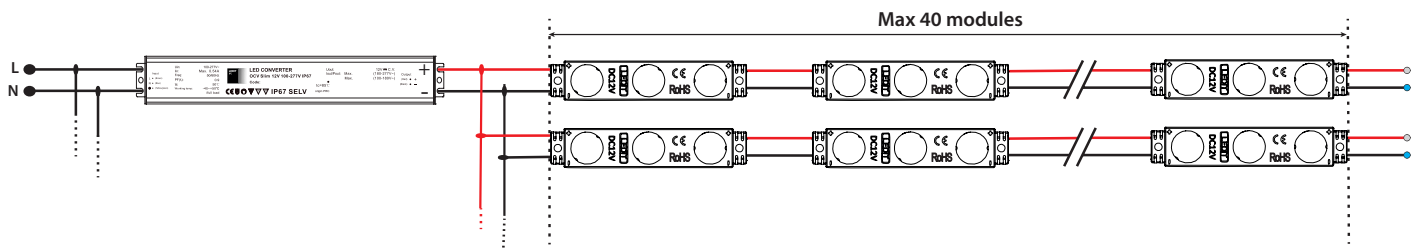
### DIMENSIONS



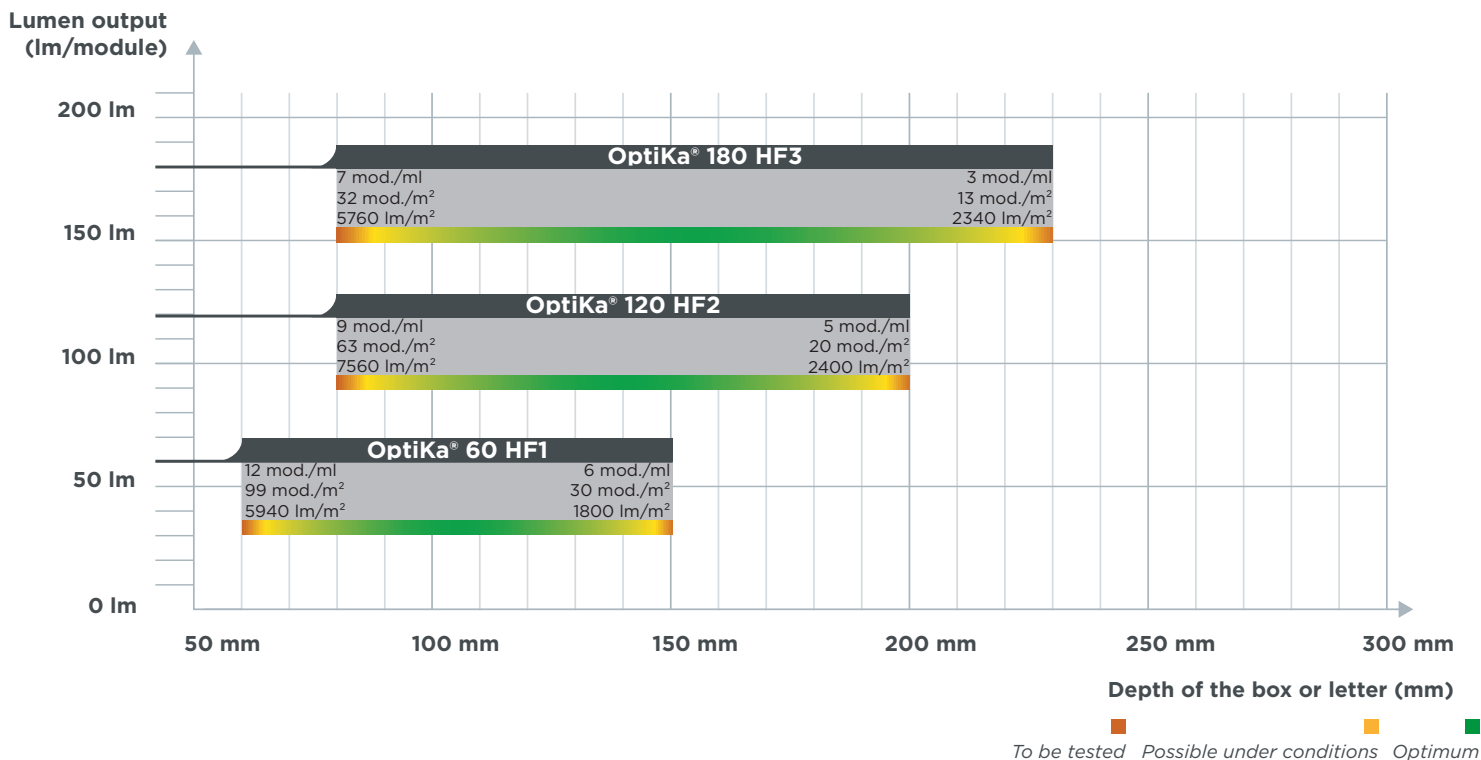
### LIGHT DISTRIBUTION



### WIRING DIAGRAM



### APPLICATION



### APPLICATION - BLOCKLED

- ▶ 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).
- ▶ Do not make direct pressure on LED chip, this could damage the internal connection.
- ▶ 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

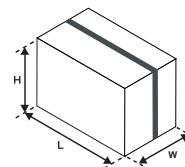
In order to ensure there is no color difference visible to the human eyes, tolerance of LEDs are Macadam ellipse 3 for white LEDs.

### FAILURE RATE

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

### PACKAGING

Types	SIZE - LxWxH (cm)	SIZE - LxWxH (ft)	Weight (kg)	Weight (lb)	Units (chain)
OptiKa 60 HF1	52x37x26	1,7x1,2x0,8	20,7	45,6	24
OptiKa 120 HF2	52x37x26	1,7x1,2x0,8	17,8	39,2	20
OptiKa 180 HF3	52x37x26	1,7x1,2x0,8	18,9	41,6	30



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