

# OptiKa 777

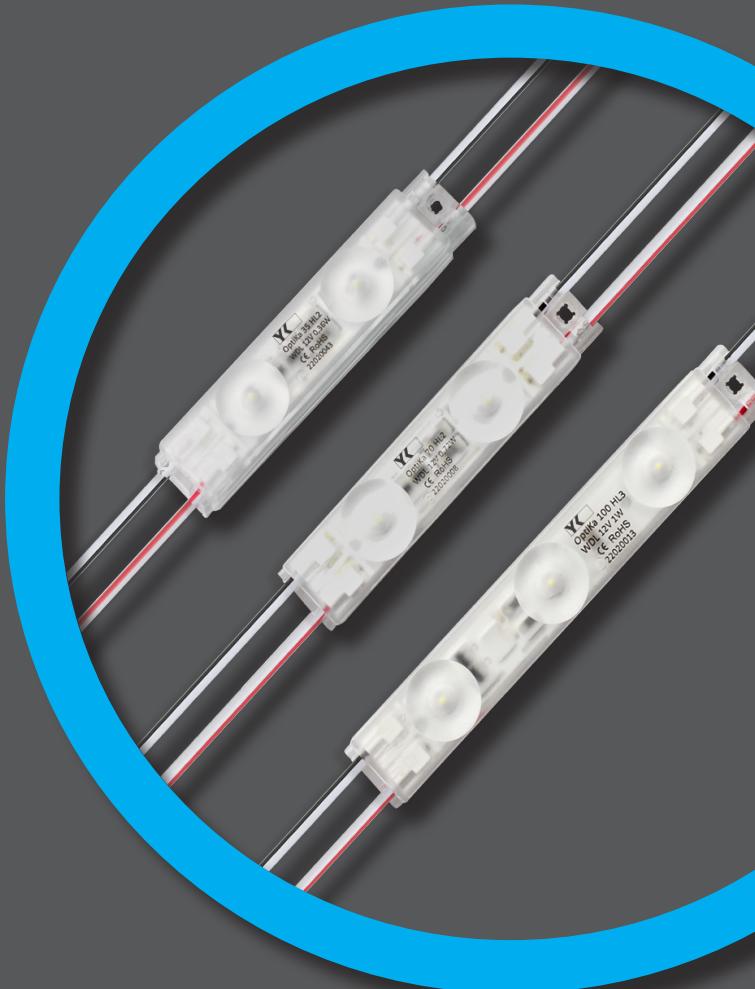
Signage – Backlighting

35-70-100

**7 YEARS  
70.000 hrs  
L70**

The latest gen of OptiKa :  
a result of continuous improvement  
to go the extra mile giving it all.

- Widest Optics for the best Uniformity
- Top-quality materials to extend Warranty & Lifetime
- MacAdam ellipse 3 to achieve Consistent light
- New design to give you the best Performance & Reliability



# OptiKa 35-70-100 HL 2-3

## FEATURES & BENEFITS

- Optimised lens for backlighting surfaces or letters with few modules. Depth range from 50 to 200mm or 2 to 8 in
- Flexible chains with 50 or 30 modules - cuttable anywhere
- New 160° IRISLENS achieves superior light distribution like you haven't seen before. Allows unparalleled uniformity
- IP67 rated for outdoor applications
- Durability: Robust body made with Innovative thermally conductive plastic and PC lens , both UV rated
- Up to 113 lm/W efficiency brings your customer high energy savings
- DC 12V
- All modules are equipped with regulation component (11-14V) to ensure that any fluctuation of the output voltage from the converter would not affect the lumen output, increase of temperature or life time of the module.
- 3M VHB 4950 adhesive-tape and screw-hole for mechanical fixation
- 100% aging test
- Wide operating temperature from -30° to +70°C

## NORMS & CERTIFICATES

- EN55015:2013
- EN61547:2009
- EN61000-3-2:2014
- EN61000-3-3:2013
- EN62031:2008 + A1:2013
- IEC62321:2013
- EN62471:2008



## TECHNICAL DATA

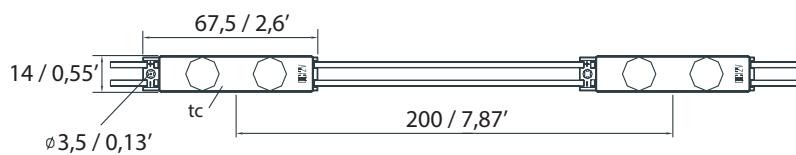
Code	Designation	Color	ColorTemp / wavelength	Voltage (V)	Typical power/mod (W)	Lumen output (lm/mod)	Efficiency (lm/W)	Modules / chain	Modules max in series	Module distance - axe to axe (mm / in)
22020041	OptiKa 35 HL2 WS 50mod 200mm 0.31W 12V IP67	WS	8700-10000K	12	0,31	31	100	50	50	200±5 / 7,87"
22020042	OptiKa 35 HL2 OW 50mod 200mm 0.31W 12V IP67	OW	6800-7500K	12	0,31	33	106	50	50	200±5 / 7,87"
22020043	OptiKa 35 HL2 WDL 50mod 200mm 0.31W 12V IP67	WDL	6000-6500K	12	0,31	35	113	50	50	200±5 / 7,87"
22020044	OptiKa 35 HL2 NW 50mod 200mm 0.31W 12V IP67	NW	3850-4250K	12	0,31	35	111	50	50	200±5 / 7,87"
22020045	OptiKa 35 HL2 WW 50mod 200mm 0.31W 12V IP67	WW	2900-3100K	12	0,31	35	111	50	50	200±5 / 7,87"
22020010	OptiKa 70 HL2 WS 50mod 200mm 0.66W 12V IP67	WS	8700-10000K	12	0,66	63	95	50	50	200±5 / 7,87"
22020009	OptiKa 70 HL2 OW 50mod 200mm 0.66W 12V IP67	OW	6800-7500K	12	0,66	67	102	50	50	200±5 / 7,87"
22020008	OptiKa 70 HL2 WDL 50mod 200mm 0.66W 12V IP67	WDL	6000-6500K	12	0,66	69	104	50	50	200±5 / 7,87"
22020007	OptiKa 70 HL2 NW 50mod 200mm 0.66W 12V IP67	NW	3850-4250K	12	0,66	70	106	50	50	200±5 / 7,87"
22020006	OptiKa 70 HL2 WW 50mod 200mm 0.66W 12V IP67	WW	2900-3100K	12	0,66	68	103	50	50	200±5 / 7,87"
22020067	OptiKa 70 HL2 R 50mod 200mm 0.72W 12V IP67	R	625-630nm	12	0,72	30	42	50	50	200±5 / 7,87"
22020068	OptiKa 70 HL2 G 50mod 200mm 0.72W 12V IP67	G	525-530nm	12	0,72	44	61	50	50	200±5 / 7,87"
22020069	OptiKa 70 HL2 B 50mod 200mm 0.72W 12V IP67	B	465-470nm	12	0,72	9	13	50	50	200±5 / 7,87"
22020015	OptiKa 100 HL3 WS 30mod 220mm 1W 12V IP67	WS	8700-10000K	12	0,95	99	104	30	30	220±5 / 8,77"
22020014	OptiKa 100 HL3 OW 30mod 220mm 1W 12V IP67	OW	6800-7500K	12	0,95	101	106	30	30	220±5 / 8,77"
22020013	OptiKa 100 HL3 WDL 30mod 220mm 1W 12V IP67	WDL	6000-6500K	12	0,95	101	106	30	30	220±5 / 8,77"
22020012	OptiKa 100 HL3 NW 30mod 220mm 1W 12V IP67	NW	3850-4250K	12	0,95	96	101	30	30	220±5 / 8,77"
22020011	OptiKa 100 HL3 WW 30mod 220mm 1W 12V IP67	WW	2900-3100K	12	0,95	90	95	30	30	220±5 / 8,77"

Tolerance range for optical and electrical data: ±15 %.

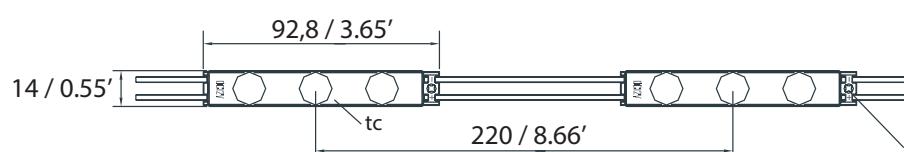
# OptiKa 35-70-100 HL 2-3

## DIMENSIONS

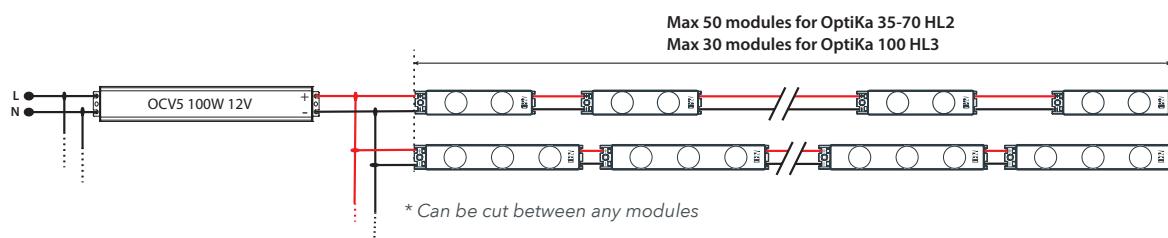
### OptiKa 35/70 HL2



### OptiKa 100 HL3



## WIRING DIAGRAM



## APPLICATION

### RECOMMENDED MODULES PER TYPE OF SIGNAGE

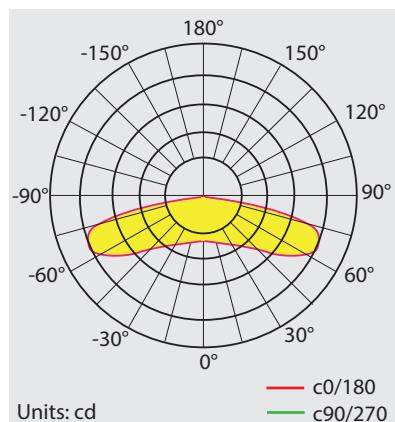
TYPE	Depth of letter or box to be illuminated (mm)					
	BlockLED (30mm)	<50mm < 2in	50 to 80mm 2 to 3in	80 to 120mm 3 to 4,7in	120 to 150mm 4,7 to 6 in	>150mm >6 in
OptiKa 10-20-30 HL1	***	***	***			**
OptiKa 35-70 HL2		**	***	***	***	**
OptiKa 100 HL3			**	***	***	***
OptiKa 90 HL1			**	***	***	***
OptiKa 180 HL2			**	***	***	***
OptiKa 270 HL3			**	***	***	***

\* To be tested

\*\* Possible under conditions

\*\*\* Optimum

## LIGHT DISTRIBUTION



# OptiKa 35-70-100 HL 2-3

## INGRESS PROTECTION IP67

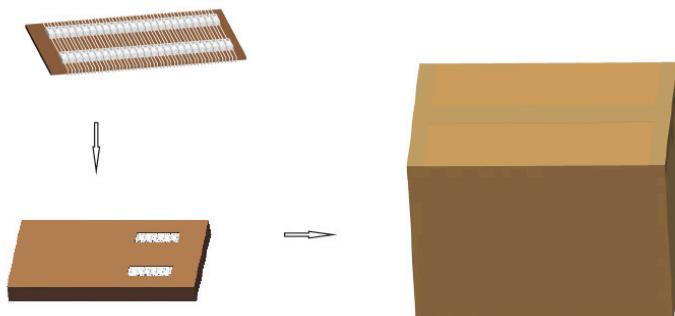
- ▶ Product is an "inbuilt LED module" designed to be used Indoors or Outdoors.
- ▶ The specified environmental protection of the LED module enclosure means that:  
It is totally protected against the ingress of dust, and protected against the effect of water immersion up to 1 mtr deep.
- ▶ The certification requires products to pass a test 30 minutes long at 1 mtr. depth. After 30 minutes of submersion product could start to be affected or damaged.
- ▶ Make sure 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 IP67 certification limits.

## 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).
- ▶ 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.

## PACKAGING

	Type	SIZE - LxWxH (cm)	SIZE - LxWxH (ft)	Weight (Kg)	Weight (lb)	Nb of Pcs / box
CARTON	OptiKa 35-70 HL2	40x30x32	1,3x1x1,1	14,5	32	18
	OptiKa 100 HL3	40x30x34	1,3x1x1,1	18	39,7	28



## THERMAL BEHAVIOUR

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

- ▶ Operation temperature Ta -30° to +70°C
- ▶ Storage temperature Ts -30° to +80°C
- ▶ Max. temperature tc point Tc +80°C

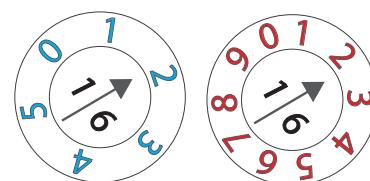
The life of the module will decrease when the maximum temperature limits are exceeded.

If LEDs are operated for a continuous extended time at temperatures that exceed the maximum limits, the modules can fail.

Our Warranty will be void when LED modules are operated exceeding the maximum values indicated.

## IDENTIFICATION

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



Production's Week 22

Production's year 2016