

OptiKa 777

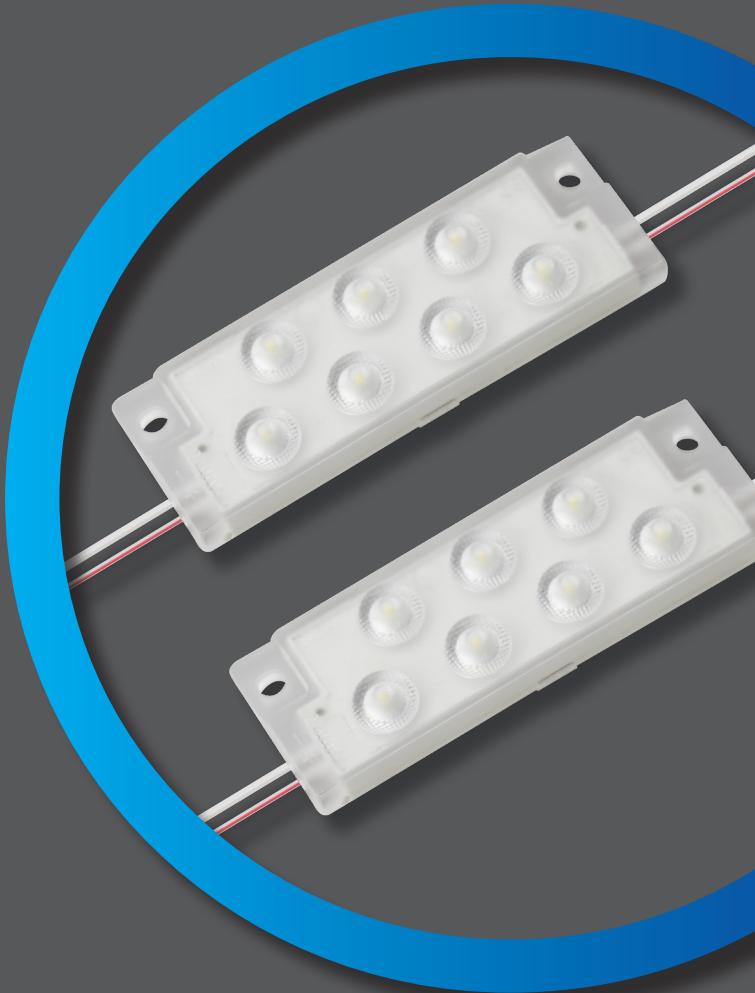
Signage – Backlighting

500 HL7

**7 YEARS
70.000 hrs
L70**

Incredible **efficiency** and
luminosity packed together

- High-efficiency: 130 lm/w
- Robust and reliable: PU, PC
- Consistent white: MacAdams 3
- From 9 to 15 modules/m²
- 170° IRISLENS
- 24V, 3.5W, 455lm/module
- IP68 and fully UV rated



OptiKa 500 HL7

FEATURES & BENEFITS

- Optimised 170° lens for backlighting surfaces or letters with fewer modules but bright results. Saves on installation time and labor
- Flexible chains with 30 modules - cuttable anywhere
- IP68 rated for outdoor applications
- Durability: Robust body made with innovative thermally conductive plastic and PC lens, both UV rated
- Superior efficiency, 130lm/W, gives incredible energy-savings
- DC 24V
- All modules are equipped with regulation component (24V±5%) to ensure that any fluctuation of the output voltage from the converter would not affect the lumen output, increase of temperature or lifetime of the module
- 3M 4229 adhesive-tape and screw-hole for mechanical fixation for mechanical fixation
- 100% aging test
- Wide operating temperature from -25°C to +55°C

NORMS & CERTIFICATES

- EN 61547/2009
- EN 62031/2008
- EN 62471/2006



LIFETIME & WARRANTY

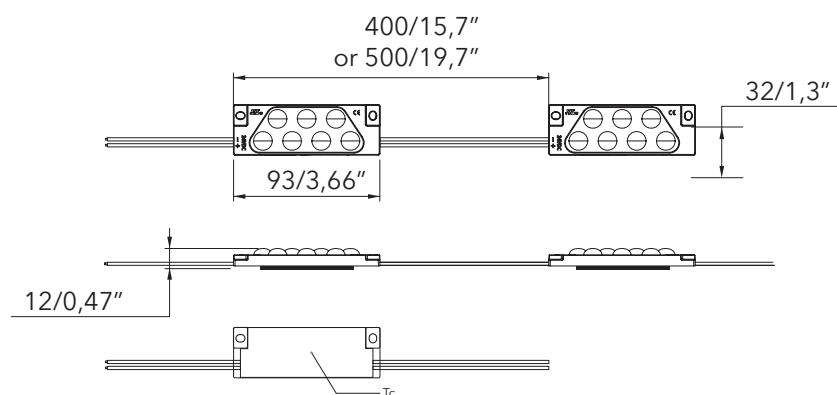
- Warranty: 7 years
- Lifetime: 70.000 hours at L70

TECHNICAL DATA

Code	Designation	Color	ColorTemp / wavelength	Volt-age (V)	Typical power/mod (W)	Lumen output (lm/mod)	Effi ciency (lm/W)	Modules / chain	Modules max in series	Module distance - axe to axe (mm / in)
20880074	OptiKa 500 HL7 WDL 30mod 400mm 3.5W 24V IP68	WDL	6000-7000K	24	3,5	455	130	30	30	400±5 / 15,7"
20880086	OptiKa 500 HL7 NW 30mod 400mm 3.5W 24V IP68	NW	3700-4200K	24	3,5	420	120	30	30	400±5 / 15,7"
20880075	OptiKa 500 HL7 WW 30mod 400mm 3.5W 24V IP68	WW	2700-3200K	24	3,5	420	120	30	30	400±5 / 15,7"
20880099	OptiKa 500 HL7 WDL 30mod 400mm 3.5W 24V I90 IP68	WDL	6000-7000K	24	3,5	455	130	30	30	400±5 / 15,7"
20880100	OptiKa 500 HL7 NW 30mod 400mm 3.5W 24V I90 IP68	NW	3700-4200K	24	3,5	420	120	30	30	400±5 / 15,7"
20880101	OptiKa 500 HL7 WW 30mod 400mm 3.5W 24V I90 IP68	WW	2700-3200K	24	3,5	420	120	30	30	400±5 / 15,7"
20880079	OptiKa 500 HL7 WDL 30mod 500mm 3.5W 24V IP68	WDL	6000-7000K	24	3,5	455	130	30	30	500±5 / 19,7"
20880087	OptiKa 500 HL7 NW 30mod 500mm 3.5W 24V IP68	NW	3700-4200K	24	3,5	420	120	30	30	500±5 / 19,7"
20880080	OptiKa 500 HL7 WW 30mod 500mm 3.5W 24V IP68	WW	2700-3200K	24	3,5	420	120	30	30	500±5 / 19,7"

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

DIMENSIONS



OptiKa 500 HL7

APPLICATION RECOMMENDATION

Recommended number of OptiKa 500 HL7 modules

1 m ²	Depth (mm)	Modules / m ²	Lm / m ²	Cd / m ²	
Box dimension		OptiKa 500 HL7 - 400mm			
Flexible face 30% transmission	120	12 or 15	5460-6825	600-700	
	150	12 or 15	5460-6825	550-650	
	180	9 or 12	4095-5460	450-550	
	200	9 or 12	4095-5460	400-500	
PMMA face 55% transmission	120	12 or 15	5460-6825	900-1100	
	150	12 or 15	5460-6825	900-1100	
	180	9 or 12	4095-5460	650-900	
	200	9 or 12	4095-5460	650-900	

* To be tested

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	150 to 200mm 6 to 7,9 in	200 to 250mm 7,9 to 9,8 in	>250mm > 9,8 in
OptiKa 10-20-30 HL1	***	***	***					
OptiKa 35-70 HL2		**	***	***	**			
OptiKa 100 HL3			**	***	***			
OptiKa 90 HL1			**	***	***			
OptiKa 180 HL2			**	***	***			
OptiKa 270 HL3			**	***	***			
OptiKa 500 HL7				**	***	***	***	***
OptiKa 900 DS				**	***	***	***	***

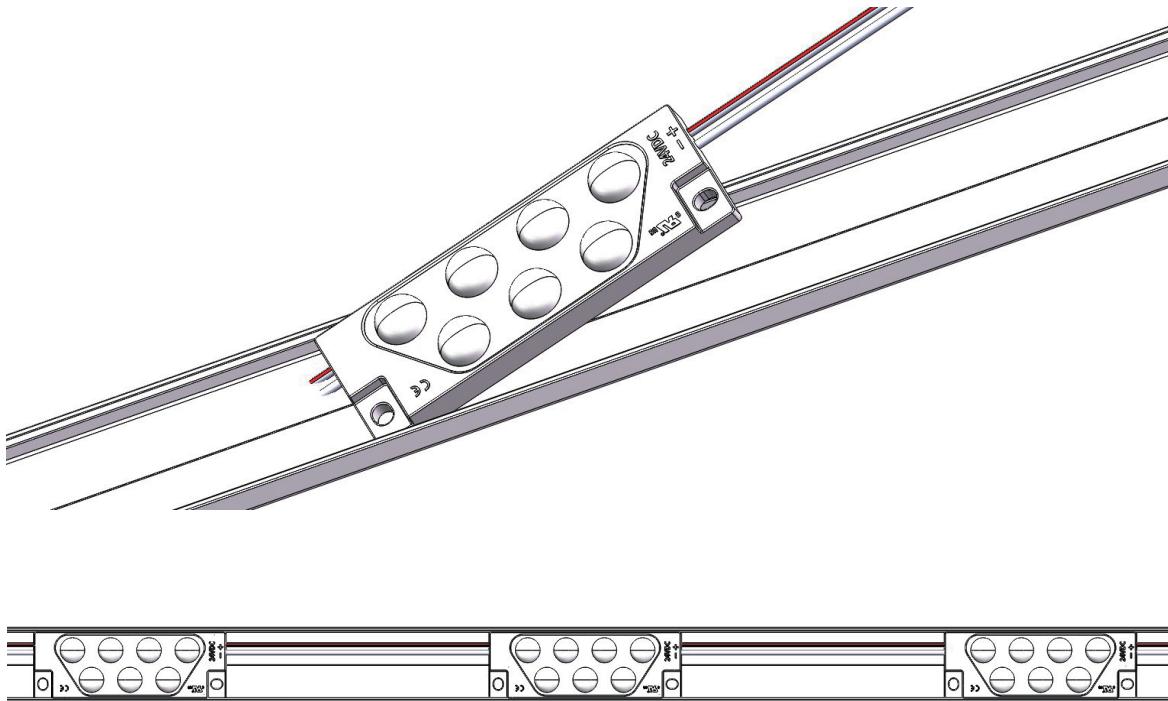
* To be tested

** Possible under conditions

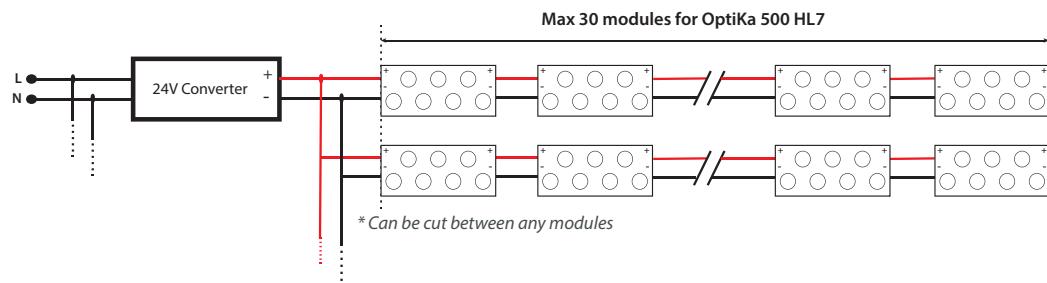
*** Optimum

OptiKa 500 HL7

INSTALLATION



WIRING DIAGRAM



INGRESS PROTECTION IP68

- ▶ 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 >1 mtr deep.
- ▶ The certification requires products to pass a 30 minutes test, generally up to 3 mtr. depth. After longer times 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 IP68 certification limits.

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 | T _a -25°C to +55°C |
| ▶ Storage temperature | T _s -40°C to +85°C |
| ▶ Max. temperature t _c point | T _c +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.

OptiKa 500 HL7

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 500 HL7 MD400	52x37x26	1,7x1,2x0,8	19,5	42,0	14
	OptiKa 500 HL7 MD500	52x37x26	1,7x1,2x0,8	22,6	49,8	14