

hansen neon hansen LED

德國 漢森 專業燈光科技



WE CAN DO IT!



Power LED



Neon Converter



LED Street Lamp



LED Illuminous Panel

www.hansen-led.com
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hansen neon gmbh

Electronic Converters - EVGs for Neon

德国(汉森)霓虹灯/冷极管专用电子变压器

HANSEN Neon is one of Europe's largest manufacturers of electronic converters for neon signs, and is now also a major producer of equipment for L.E.D. lighting.

With its recent move to a larger factory and the increased use of robotic assembly methods, it is able to produce consistently a product of extreme quality.

Electronic converters have several advantages over conventional wire wound transformers; especially for small portable signs. Firstly they are considerably lighter and smaller than an equivalent output wire wound transformer. Because they have constant current characteristics they will light a tube to the same brightness be it short or long, and because the operating frequency is 20,000 Hz this light is flicker free.

When you combine this with inbuilt protection devices and elegant design you have the perfect power supply for most portable signs.

德国 HANSEN (汉森) 是欧洲最大霓虹灯电子转换器、LED灯和 LED电源的生产厂家之一。是一家集研究、开发、设计、生产于一体的专业性公司。

由于业务增长，HANSEN (汉森) 最近已搬迁至更大的厂房，并更新和升级为自动化生产设备，生产能力获得大幅度的提升并确保产品之高品质和一致性。

HANSEN (汉森) 全部产品皆通过欧洲CE认证，美国UL认证及ISO9001等多种国际权威认证。符合国际安全使用标准。产品除在欧洲享有很高的声誉外，还远销北美、中东、东南亚、大洋洲等海外市场。
















比锐广告器材有限公司作为 HANSEN (汉森) 的中国及香港地区之代理，本着优质、诚信的服务宗旨，我们热切希望和您合作，欢迎联系洽谈。

HANSEN 紧凑型设计霓虹灯电子变压器(转换器)具备自动过压保护功能。由20mA至150mA。有户外、户内、可调光等选择。



CE



Secondary current 二次电流	Voltage 电压	Primary current 初级电流	Type designation 型号	Order number 订购编号	Dimensions (mm) 长 宽 高			Housing no. 外壳编号	Dimmable 调光	Open circuit protection 开路保护	Suitable for outdoor 户外使用
					Length	Width	Height				
20mA	990V	0.25A	EVG20/15L	 1 2010 266	160	29	25	1	no	no	yes
	2000V	0.25A	EVG 20/25L	 1 2020 266	160	29	25	1	no	optional	yes
	2000V	0.25A	EVG 20/25LR	 1 2020 276	160	29	25	1	no	optional	yes
	3000V	0.35A	EVG 20/3	 1 2030 200	160	40	35	2	no	optional	yes
	4000V	0.50A	EVG 20/4	 1 2040 200	170	53	44	6	no	optional	yes
	5000V	0.55A	EVG 20/5D	 1 2050 202	205	39	37	3	Potentiometer	yes	no
	8000V	0.95A	EVG 20/20RD	 1 2080 202	207	52	46	4	Potentiometer	yes	no
30mA	2200V	0.40A	EVG30/2	 1 3020 200	160	40	35	2	no	optional	yes
	4000V	0.60A	EVG 30/4	 1 3040 200	170	53	44	6	no	optional	yes
40mA	990V	0.25A	EVG40/15L	 1 4010 266	160	29	25	1	no	no	yes
	2X990V	0.45A	EVG 40/1Duo	 1 4010 215	186	44	29	5	no	no	yes
	1500V	0.35A	EVG 40/1.5	 1 4015 200	160	40	35	2	no	optional	yes
	3000V	0.60A	EVG 40/3	 1 4030 200	170	53	44	6	no	optional	yes
50mA	990V	0.35A	EVG50/1	 1 5010 200	160	40	35	2	no	no	yes
	2550V	0.60A	EVG 50/2.5	 1 5025 200	170	53	44	6	no	optional	yes
60mA	990V	0.40A	EVG60/1	 1 6010 200	160	40	35	2	no	no	yes
	2000V	0.60A	EVG 60/2	 1 6020 200	170	53	44	6	no	optional	yes
80mA	990V	0.45A	EVG80/1	 1 8010 200	172	53	44	2	no	no	yes
	1500V	0.60A	EVG 80/1.5	 1 8015 200	170	53	44	6	no	optional	yes

Dimmable EVGs, dimmable by reverse phase control

40mA	990V	0.25A	EVG40/1D	 1 4010 202	205	39	37	7	Phase	yes	yes
	2X990V	0.50A	EVG 40/1D Duo	 1 4010 212	205	49	29	8	Phase	yes	yes
80mA	990V	0.50A	EVG80/1D	 1 8010 202	205	39	37	7	Phase	yes	yes
	2X990V	0.95A	EVG 80/1D Duo	 1 8010 215	205	49	29	9	Phase	yes	yes
120mA	990V	0.80A	EVG120/1D	 205 39 37 7	205	39	37	7	Phase	yes	yes
150mA	990V	0.90A	EVG150/1D	 205 39 37 7	205	39	37	7	Phase	yes	yes

Dimmable EVGs, dimmable by control voltage (0-10 volts)

40mA	3000V	0.60A	EVG40/3D	 1 4030 002	260	62	46	10	0-10V	yes	yes
50mA	2000V	0.60A	EVG 50/2D	 1 5020 002	260	62	46	10	0-50V	yes	yes

EVGs with integrated flasher unit


20mA	5000V	0.55A	EVG20/5B	 1 2050 204	205	39	37	11	no	yes	no
	8000V	0.95A	EVG 20/8B	 1 2080 204	207	52	46	11	no	yes	no

EVG for 12 volts DC, dimmable

15mA	3000V	2.50A	C 12/3000	 1 1230 200	200	98	40	12	yes	no	yes
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Explanations 要点说明

Blue/Red discharge 蓝气/紫气放电

 These types are suitable for blue discharge tubes. 表示适合蓝气灯管 Connecting red discharge tubes may cause the so-called "jelly-bean effect". 如果与紫气灯管连接可能使本度线性输出的霓虹灯断裂成一段一段的灯管, 就像果冻排成一列。

 These types are suitable for red discharge tubes only. 表示适合紫气灯管

 These types are suitable for blue and red discharge tubes. 表示适合蓝气或紫气灯管

Earth leakage trip 接地保护自动断路器

All EVGs above 1,000 volts are provided with an integrated earth leakage trip. 所有超过 1000V 的 EVG 电子变压器均内置接地保护自动断路器。

Open circuit protection 开路保护器

The EVGs 20/5 and 20/8 are provided with open circuit protection as standard. For all other types above 1,000 volts, open circuit protection is available as an option. 型号 EVGs 20/5 及 20/8 配备了 标准的开路保护器, 至于其他超过 1000V 的型号, 均可选择加装开路保护器。

Dimmability 调光

The terms given in the dimmable column have the following meaning: 调光之定义, 有以下几种:

Potentiometer: 电位计 The EVG can be dimmed by means of a potentiometer located on the housing. 可在外壳加装电位计来调光

Phase: 相位 The EVG can be dimmed by a traditional phase angle dimmer. 可使用传统的相角调光器

0-10 V: The EVG can be dimmed by means of a control voltage of 0-10 volts. 可使用 0-10V 电压来调光器

No: The EVG is not dimmable. 不能调光

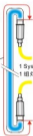
Load Chart for Converters HANSEN 變壓器負載表

The values given represent the maximum tube lengths which may be connected to the EVG.

此處所提供的數值為連接EVG變壓器之最大管長長度。

The tube length is measured from one electrode to the other.

管長由一電極到另一電極之間的距離。



Basis for the calculation of these values are the filling pressure recommendations of the German Fachverband Lichtwerbung as of Nov. 1992.

Blue discharge (outdoor)	
Diameter	10 12 15 18 20 22
1 Syst.	2.3 2.8 3.5 4.1 4.4 4.8
2 Syst.	1.9 2.3 2.9 3.4 3.6 4.0
3 Syst.	1.5 1.8 2.2 2.6 2.8 3.1
4 Syst.	1.0 1.3 1.6 1.9 2.1 2.2
5 Syst.	0.6 0.8 1.0 1.2 1.3 1.4

Blue discharge (indoor)	
Diameter	10 12 15 18 20 22
1 Syst.	2.8 3.5 4.2 5.0 5.3 5.8
2 Syst.	2.4 3.0 3.6 4.3 4.6 5.0
3 Syst.	2.0 2.5 3.0 3.5 3.8 4.1
4 Syst.	1.6 2.0 2.4 2.8 3.0 3.3
5 Syst.	1.2 1.5 1.8 2.1 2.3 2.5

Red discharge	
Diameter	10 12 15 18 20 22
1 Syst.	1.5 1.8 2.2 2.7 2.9 3.0
2 Syst.	1.2 1.5 1.8 2.2 2.4 2.5
3 Syst.	0.9 1.1 1.4 1.7 1.8 2.0
4 Syst.	0.7 0.8 1.0 1.2 1.3 1.4
5 Syst.	0.4 0.5 0.6 0.8 0.8 0.9

2,000 Volt

Blue discharge (indoor)	
Diameter	8 10 12 15 18 20
2 Syst.	4.3 5.6 7.0 8.5 10.0 10.7
3 Syst.	4.0 5.2 6.5 7.9 9.2 10.0
4 Syst.	3.7 4.8 6.0 7.3 8.5 9.2
5 Syst.	3.4 4.4 5.5 6.7 7.8 8.4
6 Syst.	3.1 4.0 5.0 6.0 7.1 7.8

Blue discharge (outdoor)	
Diameter	8 10 12 15 18 20
2 Syst.	3.1 4.6 5.7 7.0 8.2 8.9
3 Syst.	2.8 4.2 5.2 6.4 7.5 8.1
4 Syst.	2.5 3.8 4.7 5.8 6.8 7.3
5 Syst.	2.2 3.4 4.2 5.2 6.0 6.5
6 Syst.	1.9 2.8 3.5 4.3 5.1 5.5

Red discharge	
Diameter	8 10 12 15 18 20
2 Syst.	2.4 2.9 3.6 4.4 5.4 5.8
3 Syst.	2.2 2.7 3.3 4.1 4.9 5.3
4 Syst.	2.0 2.4 3.0 3.7 4.4 4.8
5 Syst.	1.7 2.1 2.6 3.3 4.0 4.3
6 Syst.	1.5 1.9 2.3 2.9 3.5 3.7

4,000 Volt

Blue discharge (outdoor)	
Diameter	10 12 15 18 20 22
1 Syst.	0.9 1.1 1.4 1.7 1.8 2.0
2 Syst.	0.5 0.6 0.8 0.9 1.0 1.1

Blue discharge (indoor)	
Diameter	10 12 15 18 20 22
1 Syst.	1.2 1.5 1.8 2.1 2.3 2.5
2 Syst.	0.8 1.0 1.2 1.4 1.5 1.6

Red discharge	
Diameter	10 12 15 18 20 22
1 Syst.	0.6 0.7 0.9 1.1 1.2 1.2
2 Syst.	0.3 0.4 0.5 0.6 0.6 0.7

990 Volt

Blue discharge (outdoor)	
Diameter	10 12 15 18 20 22
1 Syst.	3.0 3.7 4.5 5.3 5.7 6.2
2 Syst.	2.6 3.2 3.9 4.6 5.0 5.4
3 Syst.	2.1 2.7 3.3 3.9 4.2 4.5
4 Syst.	1.7 2.2 2.7 3.1 3.4 3.7
5 Syst.	1.3 1.6 2.2 2.4 2.6 2.8

Blue discharge (indoor)	
Diameter	10 12 15 18 20 22
1 Syst.	3.6 4.5 5.4 6.4 6.9 7.5
2 Syst.	3.2 4.0 4.8 5.7 6.1 6.6
3 Syst.	2.8 3.5 4.2 5.0 5.3 5.8
4 Syst.	2.4 3.0 3.6 4.2 4.6 5.0
5 Syst.	2.0 2.5 3.0 3.7 3.8 4.1

Red discharge	
Diameter	10 12 15 18 20 22
1 Syst.	1.9 2.3 2.9 3.5 3.7 4.0
2 Syst.	1.6 2.0 2.5 3.0 3.2 3.4
3 Syst.	1.4 1.7 2.1 2.5 2.7 2.9
4 Syst.	1.1 1.3 1.7 2.0 2.2 2.3
5 Syst.	0.8 1.0 1.3 1.6 1.7 1.8

2,500 Volt

Blue discharge (indoor)	
Diameter	8 10 12 15 18 20
2 Syst.	5.6 7.2 9.0 10.9 12.8 13.8
3 Syst.	5.3 6.8 8.5 10.3 12.1 13.0
4 Syst.	5.0 6.4 8.0 9.7 11.4 12.3
5 Syst.	4.6 6.0 7.5 9.1 10.7 11.5
6 Syst.	4.3 5.6 7.0 8.5 10.0 10.8
7 Syst.	4.0 5.2 6.5 7.9 9.2 10.0
8 Syst.	3.7 4.8 6.0 7.3 8.5 9.2
9 Syst.	3.4 4.4 5.5 6.7 7.8 8.4

Red discharge	
Diameter	8 10 12 15 18 20
2 Syst.	3.1 3.8 4.7 5.8 7.0 7.5
3 Syst.	2.9 3.5 4.4 5.4 6.5 7.0
4 Syst.	2.7 3.3 4.0 5.0 6.0 6.5
5 Syst.	2.5 3.0 3.7 4.6 5.6 6.0
6 Syst.	2.2 2.8 3.4 4.2 5.1 5.5
7 Syst.	2.0 2.5 3.1 3.8 4.6 5.0
8 Syst.	1.8 2.2 2.7 3.4 4.1 4.4
9 Syst.	1.6 2.0 2.4 3.0 3.6 3.9

5,000 Volt

Blue discharge (outdoor)	
Diameter	10 12 15 18 20 22
1 Syst.	1.6 2.0 2.5 2.9 3.1 3.4
2 Syst.	1.2 1.5 1.8 2.1 2.3 2.5
3 Syst.	0.8 1.0 1.2 1.4 1.5 1.7

Blue discharge (indoor)	
Diameter	10 12 15 18 20 22
1 Syst.	2.0 2.5 3.0 3.5 3.8 4.1
2 Syst.	1.6 2.0 2.4 2.8 3.0 3.3
3 Syst.	1.2 1.5 1.8 2.1 2.3 2.5

Red discharge	
Diameter	10 12 15 18 20 22
1 Syst.	1.0 1.2 1.6 1.9 2.0 2.1
2 Syst.	0.7 0.9 1.2 1.4 1.5 1.6
3 Syst.	0.5 0.6 0.8 0.9 1.0 1.0

1,500 Volt

Blue discharge (outdoor)	
Diameter	10 12 15 18 20 22
2 Syst.	3.2 4.0 5.0 5.8 6.3 6.8
3 Syst.	2.8 3.5 4.3 5.1 5.5 6.0
4 Syst.	2.4 3.0 3.7 4.3 4.7 5.1
5 Syst.	2.0 2.5 3.1 3.6 3.9 4.2
6 Syst.	1.6 2.0 2.5 2.9 3.1 3.4

Blue discharge (indoor)	
Diameter	10 12 15 18 20 22
2 Syst.	4.0 5.0 6.0 7.1 7.6 8.3
3 Syst.	3.6 4.5 5.4 6.4 6.9 7.5
4 Syst.	3.2 4.0 4.8 5.7 6.1 6.6
5 Syst.	2.8 3.5 4.2 5.0 5.3 5.8
6 Syst.	2.4 3.0 3.6 4.2 4.6 5.0

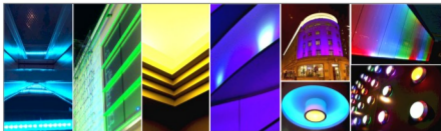
Red discharge	
Diameter	10 12 15 18 20 22
2 Syst.	2.1 2.5 3.2 3.8 4.1 4.3
3 Syst.	1.8 2.2 2.8 3.3 3.6 3.8
4 Syst.	1.5 1.9 2.4 2.8 3.1 3.2
5 Syst.	1.3 1.6 2.0 2.4 2.5 2.7
6 Syst.	1.0 1.2 1.6 1.9 2.0 2.1

3,000 Volt

Blue discharge (indoor)	
Diameter	8 10 12 15 18 20
2 Syst.	9.3 12.0 15.0 18.2 21.4 23.0
3 Syst.	9.0 11.6 14.5 17.8 20.7 22.3
4 Syst.	8.7 11.2 14.0 17.0 20.0 21.5
5 Syst.	8.4 10.8 13.5 16.4 19.2 20.7
6 Syst.	8.1 10.4 13.0 15.8 18.5 20.0
7 Syst.	7.8 10.0 12.5 15.2 17.8 19.2
8 Syst.	7.5 9.6 12.0 14.6 17.1 18.4
9 Syst.	7.1 9.2 11.5 14.0 16.4 17.8

Red discharge	
Diameter	8 10 12 15 18 20
2 Syst.	5.2 6.4 7.9 9.8 11.8 12.7
3 Syst.	5.0 6.2 7.8 9.4 11.3 12.2
4 Syst.	4.8 5.9 7.3 9.0 10.8 11.7
5 Syst.	4.6 5.7 6.9 8.6 10.4 11.2
6 Syst.	4.4 5.4 6.6 8.2 9.9 10.6
7 Syst.	4.2 5.1 6.3 7.8 9.4 10.1
8 Syst.	4.0 4.9 6.0 7.4 8.9 9.5
9 Syst.	3.7 4.6 5.6 7.0 8.4 9.1

8,000 Volt



HANSEN LED Converters
HANSEN LED 电源

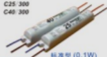


100% Made in Germany



100% 原装进口制造/进口

C25/300
C40/300



标准型 (0.1W)
convertersLED of radnaS



C25/300D
C40/300D
调光型
Dimmable LED converters

C25/390
C40/650

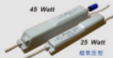


高电压输出型
LED converters - with higher output voltage



迷你型
Mini and plug type converter

45 Watt



25 Watt
超紧凑型
Electronic LED ballasts for extra-low voltages
10...12...24 Volt

C100/900
Power LED
Converter



Dimmer 90W
90W调光器
Dimmable via External Control
Voltage (0-10 volts)

C100/150



C100/300
劲力型
Power LED converter (0.4W)



Mains Filter 5A
(Protect LED system: against bad electricity)
电力过滤器 5A (保护LED系统免受不良电力)



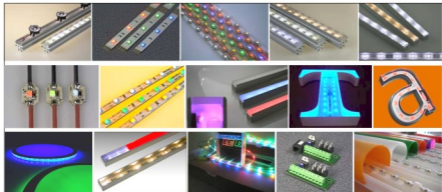
Temperature Switch
(protect LED from too high temperature)
温度感应器 (保护LED系统免受过高温度)



RGB Controller
RGB 控制器



Lighting Control Unit
(for auto switch on/off and auto dimming)
光度感应器 (调节光度及自动开关)



欧洲权威LED产品制造商-HANSEN

HANSEN为专业研发和制造LED室内外照明装饰灯产品的高新技术的权威企业。HANSEN在市场上享有非常好的口碑。目前公司主要产品有：LED灯带，LED护栏灯，LED轮廓灯，LED电源，LED控制器和软件。



HANSEN NEON GMBH, one of the leading LED manufacturer in Europe of energy-saving LED technology for high-volume, solid-state lighting markets. The company's proprietary technology and innovative designs have enabled the company to develop advanced solid-state lighting products that offer superior quality, are lower in cost and are environmentally friendly.

Products include: LED modules, LED Linear Bars, flexible LED strips, LED profile lamps, Led Power Supplies and etc.

HANSEN LED Tube consists of a chain of LED diodes mounted on small circuit boards, which are connected by copper wires. This LED chain is enclosed in a weatherproof heat shrink tubing.

汉森LED灯串是由每个镶嵌于细小的线路板的LED二极管相互间以铜线来连接所组成的，再以高质量的热缩管对整条LED灯串提供全天候保护。

Application:

- Illumination of channel letters in advertising signs
- Indirect illumination of indoor and outdoor systems
- Special designs for shop fitting and display building

应用:

- 广告标识所常见的槽型字
- 户外或户内的间接照明(反光)
- 商店和建筑物的装修与特色照明

The fact that the LEDs are connected in series offers a number of advantages, particularly for outdoor installations.

事实上，串连式LED灯串的优点非常多，尤其于户外应用的领域上。



LED strip inside shrinkaged waterproof tube



带阻性防水套LED灯带



7 colours available



7 colours available

Recommended: 特别推荐:

HANSEN POWER LED

4 times more light with power LEDs

= 比传统LED光亮4倍



6 colours available



RGB LED 灯条

"Wilma" is a rigid printed circuit board with an LED spacing of 22 mm. The maximum connectable length per power supply point is 2.6 m.

"Vicki" is a flexible circuit board which can be bent to follow curved shapes. The LED spacing is 30 mm and the maximum length per power supply is 5 m.

The 12 mm wide circuit board "Sancho" can be used to create an RGB colour flow. The LED spacing is 31 mm, and the maximum length per power supply point is 5 m.





11 mm thick acrylic panels with Hansen LED edge illumination to 1 or 2 edges. Panel surfaces are laser-etched to provide even face illumination. Applications include backlit panels for digitally printed transparencies, or feature illuminated shelving. Available in White, Blue and Green as well as controllable RGB Colormix.

采用11毫米有机玻璃板并由汉森LED进行单边或双边的照明。面板表面采用激光蚀刻让照明效果更均衡。可作为数字印刷胶片的背光面板或发光装饰。有白、蓝、绿或是RGB可控调色系列选择。

- Backlighting of acrylic glass or translucent foil
- Illumination of printed paper or backlight foil
- Light source for information, advertising, presentation
- 作为有机玻璃面板或半透明胶片之背光源
- 用作数码印刷胶片或背光胶片(底片)的光源
- 作为信息、广告、简报的发光源

The luminous panel essentially consists of an 8 mm thick milky-transparent acrylic glass pane and a strip of LEDs housed in a groove running along the edge of the pane.

发光板主要包含一片8毫米厚的乳白色透明有机玻璃板和一串镶嵌于板边槽位的LED线条灯紧密结合而成。

The special acrylic material has the capability to direct the light towards the entire surface. This effect is enhanced by a laser-engraved pattern on the rear of the pane ensuring a uniform light distribution.

采用特殊有机板材料能让LED的光照整个板面。全靠通过激光雕磨而成的图纹确保了光线均匀散布板的所有位置。

The pane can be illuminated from one side up to a height of approx. 40 cm. For larger dimensions up to approx. 90 cm, two opposite LED strips are required.

透明板一边镶LED的照明高度达40cm, 和两对边均镶LED的最大照明高度可达90cm, 宽度:任何尺寸或按要求。



HANSEN (GALAXXIS) LED STREET LAMP

High Power, Eco-friendly, Elegant Design, Least Maintenance

漢森LED節能路燈 - 大功率, 環保節能, 優秀設計, 最低維護

HANSEN 漢森 GALAXXIS 路燈 專門為 市中心, 住宅區或街巷而設計。按國際照明規例: DIN EN13201之級數: S4所指定燈柱間距30米及高度6米能提供足夠的照明度。其最新設計之固定托架適宜側面或頂部快速安裝於直徑42, 60或76mm之柱頂。

HANSEN以其獨特設計能平均地分布LED模組(6排*5顆)於燈頭內讓光線能以廣闊的角度照射到道路上。還有它的堅固但輕盈的鋁材外殼有利於最大限度散熱。

HANSEN GALAXXIS LED street lamp is designed for town centres, residential areas and small through-roads. At a recommended pole spacing of 30 m and a mounting height of 6 m it fulfills the requirements of the lighting class S4 according to DIN EN13201.

The newly designed universal mounting bracket allows fast side and pole-top mounting for pole top diameters of 42, 60 or 76 mm.

Through the specially designed and placed LED-Modules (6x5 pcs.) a uniform light distribution is ensured over a wide area (along the direction of traffic). The main aluminum housing combines stability and heat distribution perfectly and ensure minimal weight in the installation.

額外優點: HANSEN GALAXXIS 路燈所使用的每顆LED均包了一層防止被侵蝕和避震的保護漆以及所有電子組件都是防水和防塵的。其最新設計的外殼容許側面或頂部快速安裝, 只要插入230V 主電源即可使用。

技術參數: 耗電量: 45W (30 個高功率 1,3 W LEDs), 輸出: 400mA, 色溫: 5000K, 熱量: 42° C (於氣溫 20C°), 體積: 長x闊x高: 800 x 240 x 135mm, 重量: 6.5公斤

Additional features: The individual LEDs are protected again corrosion and are shockproof. Similarly, the electronic components in the integrated converter are protected against moisture and dirt. By installation the 230V mains supply merely has to be connected to integrated mains connector. The newly developed housing with easy-fix features ensures quick installations from the both back and bottom.

Technical Data: Power consumption :45W (30 x High Power 1,3W LEDs), Output :400mA, Colour temperature :5000K, Self-generated heat :42C (by 20C° air), Size: LxWxH: 800 x 240 x 135mm, Weight: 6.5kg

HANSEN LED 路燈之優點特性:

- 使用最新LED 技術制作。
- 比傳統路燈節省一半之使用能源。
- 低維護和更長使用壽命。
- 簡易安裝及使用。
- 現代型設計及 結構堅固耐用。
- 百分百德國製造。

The features of HANSEN Street Lamp:

- Latest LED technology.
- Up to 50% energy savings compared to conventional light sources.
- Low maintenance and a long service.
- Simple handling and installation.
- Robust technology and modern design.
- Made in Germany.



Website : www.bestsupply.com.hk www.bestsupply.cn

email : china1@bestsupply.com.hk



BEST SUPPLY LTD
中/港/澳-總代理

比誠廣告器材有限公司

香港辦事處: 九龍油蔴地彌敦道555號九龍行16樓
HK Office: 16/F., Kowloon Bldg., 555 Nathan Rd., Kln.
上海辦事處: 上海南京路五洲大藥房001弄73號102室
Shanghai Off: 郵箱 201204
廣東辦事處: 東莞厚街鎮 承平南路29號明豐廣場
Dengguan Off: 郵箱120002 郵箱 522950

BEST SUPPLY LTD.

Tel: (852) 25200886 Fax: (852) 25200071

Tel: (86) 021 60696271 Fax: (86) 021 60696272

Tel: (86) 0769 81520127 Fax: (86) 0769 85995503