

OMEGA

LED Module · Flexible LED · 조각사인용 LED



Light advance toward person



LIGHT

The world without light is darkness.
This world is a beautiful place having made by light.



ADs

The 21st century company is making profit
through advertisements.



HUMAN

At last light and an advertisement meet a
person. All the people look naturally at light.



LEDPIA

Light is for itself to be mysterious. Go toward
all the people, and advance as inserting an
advertisement in to light. It' s our goals.

Welcome to OMEGA LED



The Light is Right

Light is truth.

It can be dynamics of victory in unlimited competition of the 21st century.

Will grow to the companies which go forward to from our country through management companies international a tip management company and advanced international global village participates in the new times that one became, and having gone along one shot by actualization of tip science, and practice satisfaction and a deep emotion to international customers.

And will recompense to customer you, and produce the high-quality product which went along one shot through the most advanced new technology that held independently, and be achieving discrimination with other companies through research and development is continuous, and to be systematic in all business lines that our company treats.

Today is constantly endeavoring in order to make with early bases to new companies we put up an international company brand, and to go out of as leading the 21st century.

Will make by the management that continuous investment and independent technology development are transparent to companies letting you embrace a deep emotion and satisfaction to all customers, and promise strongly.

OMEGA LED
Chief Marketing Officer
Brave Hong



The Gunsan Factory Inside



The Gunsan Factory panorama

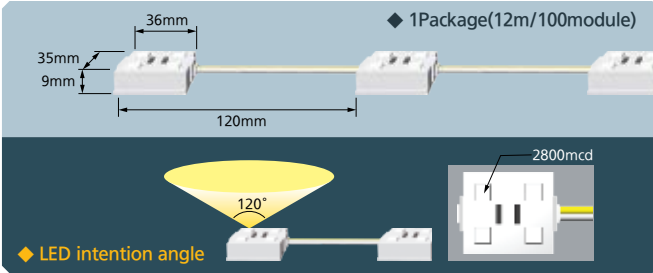


The Gunsan Factory System

PRODUCT

OMEGA SL400

Product Explanation



Technical Specifications

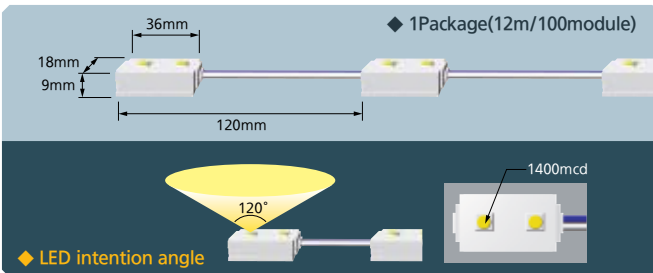
Classification	White	Green	Blue	Red	Yellow
Item	SL 400W	SL 400G	SL 400B	SL 400R	SL 400Y
Size	W36 x D35 x H9mm				
Voltage	15V		12V		
Current Consumption	0.05A		0.05A		
Power Consumption	0.76W		0.06W		
LED Specification	50 x 50, 2Chip 4LED				
Chip Maker	Japan SHOWA DENKO				
Light Angle & Luminance	120° / 2,800mcd				
Durability	Water and fire resistant / UL Standard				
Arrangement	120 x 120 mm (12Cm or thicker channel)				
Scope of Application	Indoor and outdoor large channel sign				
Temperature of Use	-25 °C ~ +70 °C				
Storage Temperature	-30 °C ~ +85 °C				
Power Unit	1W/ 1module				
Limited Warranty	Up to 2years				

Product Picture



OMEGA SL200

Product Explanation



Technical Specifications

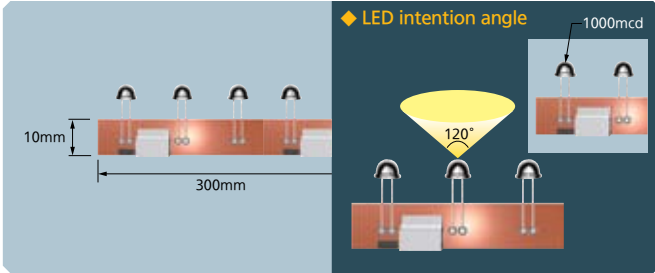
Classification	White	Green	Blue	Red	Yellow
Item	SL 200W	SL 200G	SL 200B	SL 200R	SL 200Y
Size	W36 x D18 x H9mm				
Voltage	15V		12V		
Current Consumption	0.025A		0.025A		
Power Consumption	.38W		.38W		
LED Specification	50 x 50, 2Chip 2LED				
Chip Maker	Japan SHOWA DENKO				
Light Angle & Luminance	120° / 1,400mcd				
Durability	Water and fire resistant / UL Standard				
Arrangement	60 x 60 mm (8Cm or thicker channel)				
Scope of Application	Indoor and outdoor small sign & SL400 Ccomplement				
Temperature of Use	-25 °C ~ +70 °C				
Storage Temperature	-30 °C ~ +85 °C				
Power Unit	1W/1module				
Limited Warranty	Up to 1 year				

Product Picture



FREE-L

Product Explanation



Technical Specifications

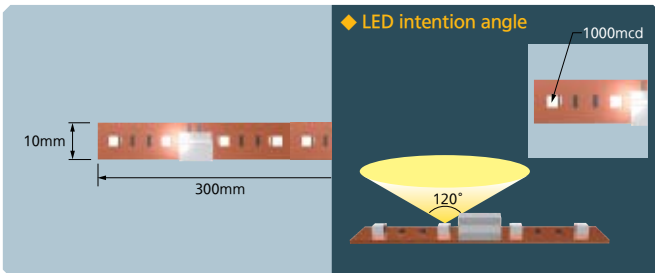
Classification	White	Green	Blue	Red	Yellow
Item	F-LW	F-LG	F-LB	F-LR	F-LY
Size	W300 x D10mm				
Voltage	DC 12V				
Current Consumption	0.14A				
Power Consumption	1.68W				
LED Specification	1Chip 5φ, 21LED, 7Cut				
Chip Maker	Japan SHOWA DENKO				
Light Angle & Luminance	120° / 1,000mcd				
Durability	Indoor use, UL Standard				
Scope of Application	3Cm or thicker channel, 1Cm or wider indoor sign or mini sign				
Temperature of Use	-20°C ~ +75°C				
Storage Temperature	-30°C ~ +90°C				
Power Unit	2W / 1Unit				
Limited Warranty	Up to 1 year				

Product Picture



FREE-L SMD

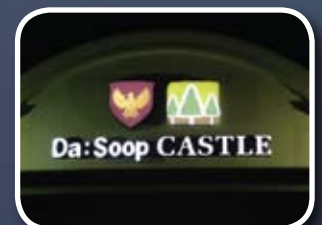
Product Explanation



Technical Specifications

Classification	White	Green	Blue	Red	Yellow
Item	F-LSW	F-LSG	F-LSB	F-LSR	F-LSY
Size	W300 x D10mm				
Voltage	DC 12V				
Current Consumption	0.14A				
Power Consumption	1.68W				
LED Specification	1Chip SMD 3528, 21LED				
Chip Maker	Japan SHOWA DENKO				
Light Angle & Luminance	120° / 1,000mcd				
Durability	Indoor use, UL Standard				
Scope of Application	Indoor light panel (Direct light source)				
Temperature of Use	-25°C ~ +70°C				
Storage Temperature	-30°C ~ +85°C				
Power Unit	2W / 1Unit				
Limited Warranty	Up to 1 year				

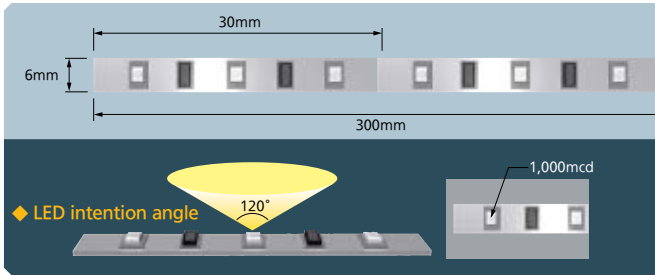
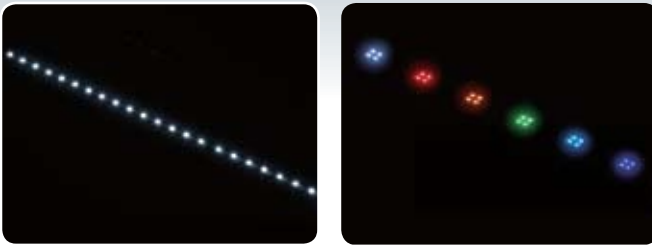
Product Picture



PRODUCT

OMEGA 1CHIP BAR

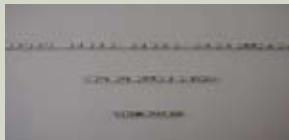
Product Explanation



Technical Specifications

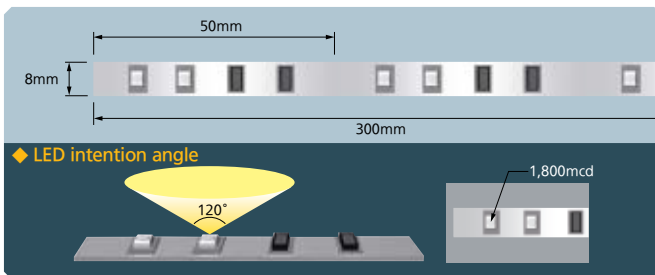
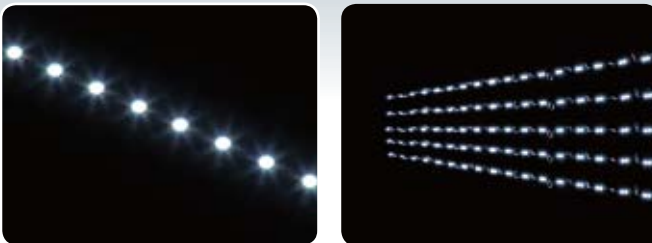
Classification	White	Green	Blue	Red	Yellow
Item	1C-BW	1C-BG	1C-BB	1C-BR	1C-BY
Size	W300 x D6 x 3.5mm				
Voltage	DC 12V				
Current Consumption	0.2A				
Power Consumption	2.4W				
LED Specification	1Chip SMD3528 *30ea				
Chip Maker	Japan SHOWA DENKO				
Light Angle & Luminance	120°				
Durability	Indoor use, UL STANDARD				
Scope of Application	Indoor light panel (side light source)				
Temperature of Use	-25°C ~ +70°C				
Storage Temperature	-30°C ~ +85°C				
Power Unit	3W/1Unit				
Limited Warranty	Up to 1years				

Product Picture



OMEGA 2CHIP BAR

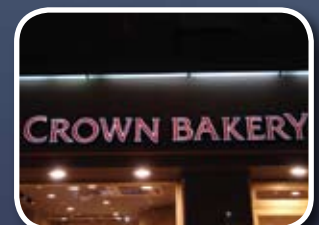
Product Explanation



Technical Specifications

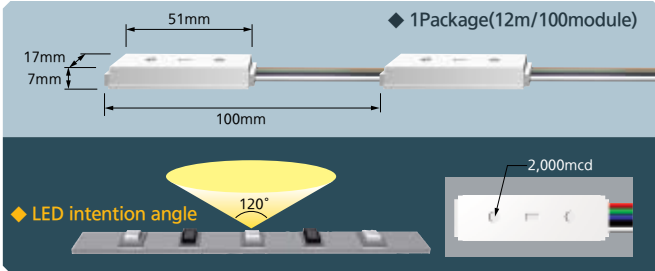
Classification	White	Green	Blue	Red	Yellow
Item	2C-BW	2C-BG	2C-BB	2C-BR	2C-BY
Size	W300x D6 x 2.6mm				
Voltage	DC 12V				
Current Consumption	0.2A				
Power Consumption	2.4W				
LED Specification	2Chip SMD5450*18ea				
Chip Maker	Japan TOYODA GOSEI				
Light Angle & Luminance	120°				
Durability	Indoor use, UL STANDARD				
Scope of Application	Indoor light panel (side light source)				
Temperature of Use	-25°C ~ +70°C				
Storage Temperature	-30°C ~ +85°C				
Power Unit	3W/1Unit				
Limited Warranty	Up to 1 year				

Product Picture



OMEGA 2RGB

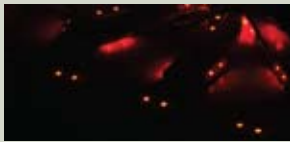
Product Explanation



Technical Specifications

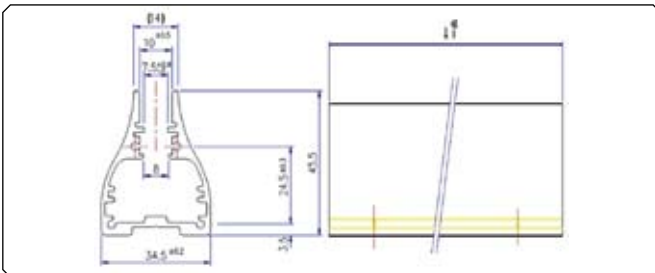
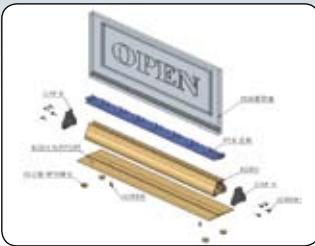
Classification	RGB
Item	SL-2RGB
Size	W53 x D17 x H7.6mm
Voltage	DC 12V
Current Consumption	0.04A / DC 12V
Power Consumption	0.48W
LED Specification	RGB 3Chip
Chip Maker	Japan SHOWA DENKO
Light Angle & Luminance	120°
Durability	Water & fire resistant / UL STANDARD
Scope of Application	Indoor & outdoor channel sign
Temperature of Use	-20 °C ~ +85 °C
Storage Temperature	-30 °C ~ +100 °C
Power Unit	2W/1Unit
Limited Warranty	Up to 1 year

Product Picture



OMEGA ELU

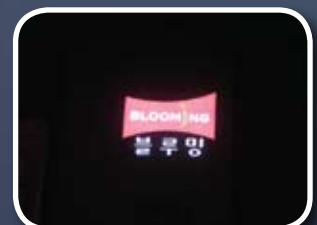
Product Explanation



Technical Specifications

Classification	RGB	White	Green	Blue	Red	Yellow
Item	ELU-F	ELU-w	ELU-G	ELU-B	ELU-R	ELU-Y
Size	W150~2000mm / 50mm					
Voltage	DC 12V					
Current Consumption	0.025A / DC 12V					
Power Consumption	2.16W/300mm					
LED Specification	1Chip 5ø or 4Pin LED					
Chip Maker	US Cree					
Light Angle & Luminance	5ø 30° or 4Pin 90°					
Durability	Indoor use, UL STANDARD					
Scope of Application	Acrylic piece sign, side light source, interior					
Temperature of Use	-20 °C ~ +75 °C					
Storage Temperature	-30 °C ~ +90 °C					
Power Unit	2W/1Unit					
Limited Warranty	Up to 1 year					

Product Picture



DC Power Supply

DC Power Supply Specifications



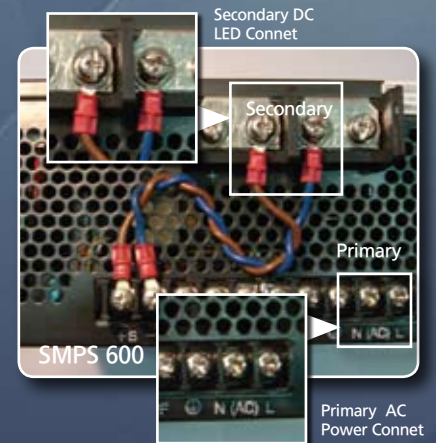
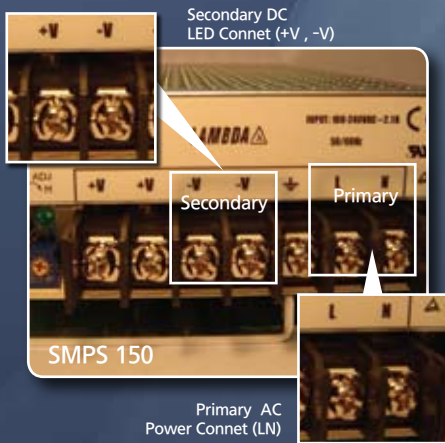
SWS	150	15
Model No.	Output Power	Output Voltage

Model No.	Output Power	Voltage	Output Voltage	Temperature of Use	Safety Assurance	Prevention of overload
	H×W×D (mm)	V	V	°C	-	-
75W	37x92x163	85~265VAC (47~63Hz)	3V~48V (±15%)	-10°~60°	CE, UL, CSA,EN	Overvoltage Overcurrent
100W	43x94x183					
150W	45x96x201					
300W	51x99x211					
600W	50x120x221					
1000W	60x160x232					
1500W	97x200x345					
1500W	97x200x345					

Selection of cables and amount according to power consumption

Power Capacity	Cable Size		Amount of Products Connected					
	KS	UL	FREE-L	FREE-SWM	OMEGA BAR	OMEGA 200	OMEGA 400	OMEGA 2RGB
Actual Power Consumption (Watts)			1.68W/12V	1.68W/12V	2.3W/12V	0.38W/15V	0.76W/15V	1.15W/12V
SWS 50-15/12	1.25	16	25	25	20	100	50	35
SWS 75-15/12	2	14	35	35	30	150	75	50
SWS 100-15/12	2	14	50	50	40	200	100	70
SWS 150-15/12	3.5	12	75	75	65	300	150	100
JWS 300-15/12	5.5	10	150	150	130	600	300	210
JWS 600-15/12	14	6	300	300	260	1200	600	430
ESF 1000-15/12	22	4	500	500	430	2000	1000	710
ESF 1500-15/12	33	2	750	750	650	3000	1500	1070

Installation of Panel Board



Notice

1. Manufacturer will not be responsible for problems caused by reversed AC and DC connection.
2. Be sure to check the polarity line of LED before connecting the DC output to the power supply.
3. Thoroughly confirm that the primary power is off when connecting the power, to eliminate the risk of electric shock.

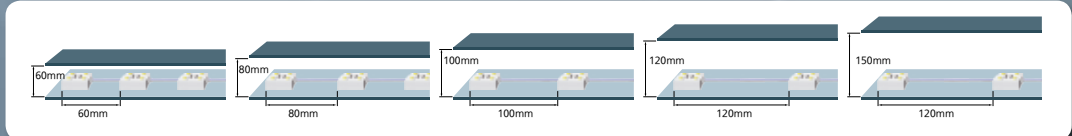
INSTALLATION

An arrangement interval by a product

1. LED Arrangement by Channel Height

Width/ Height	FREE-L	FREE-SMD	SL BAR	SL 200	SL 400	Remark
	1Cm~15Cm	1Cm~15Cm	1Cm~15Cm	3Cm~20Cm	5Cm~20Cm	
4Cm	Customized			-	-	- Cover Materials: 3mm thick Photo Diffusion PC - LED 1 column
6Cm				6Cm	6Cm	
8Cm				7Cm	8Cm	
10Cm				8Cm	10Cm	
12Cm				10Cm	12Cm	
15Cm				10Cm	12Cm	

2. Drawings of Applied Products :SL 400 COVER Materials: 3mm-thick Photo Diffusion PC



3. Arrangement by Cover Materials

Cover Material	Photo Diffusion PC	Polycarbonate (PC)	Acrylic	Duplex	Altuglas Sheet	Lighting Sheet (High-permeable)	Lighting Sheet (Semi-permeable)
10Cm	12Cm	(Channel High 10Cm)					
8Cm	10Cm						
8Cm	10Cm						
6Cm	8Cm						
6Cm	8Cm						
8Cm	10Cm						
6Cm	8Cm						

4. Note

Make sure that other light source should be considered before installation.

How to connect products with SMPS

1. Drawing 0.75W x 200pcs = 150W



2. Note

1. Manufacturer will not be responsible for problems caused by reversed AC and DC connection.
2. Be sure to check the polarity line of LED before connecting the DC output to the power supply.
3. Thoroughly confirm that the primary power is off when connecting the power, to eliminate the risk of electric shock.
4. Be sure to remove any moisture or oil in the channel before connecting.
5. If the inside of the channel is painted, tape adhesiveness may be lessened, making additional reinforcement necessary (silicon, adhesives).

Considerations in installing products

Classification	Check Points	Troubles
Product	1. Install and adjust product according to the amount for each font in channel.	
	2. Check the first lighting after applying product to channel.	
SMPS	1. Check cable fastening bolts in the primary input unit.	- Loose bolts may cause fire or electric shock.
	2. Check cable fastening bolts in the primary input unit.	- High current may cause overheating and fire.
	3. Preferably install SMPS indoors, or on a separate waterproof panel board.	- Moisture may cause the SMPS to malfunction
	4. Removes obstacles from around the SMPS and keep it away from people.	- It may cause fire or electric shock.
	5. As the SMPS generates heat, it requires a ventilation system.	- Overheating may result in malfunction.
CABLE	1. The primary line should be twice as thick as the total capacity of the SMPS.	- This enables future extension.
	2. A high-current cable should be used for the secondary output.	- The likelihood of a voltage drop is greatly influenced by the length of the high-voltage cables.
	3. Cable connection should be double-coated.	- This prevents loosening or electric leakage.
	4. Cable ends should be coated.	- Cable contact with channel may cause electric shock or leakage.
Check Points after Assembling	1. Check the rated voltage of the SMPS input line.	- Unstable power supply may cause malfunction of the SMPS.
	2. Check the voltage of the output line (Standard voltage ±0.2V)	- If there is any failure, check SMPS.
	3. Check the voltage at the end of LED (Standard volatage±0.5V)	- Low voltage may decrease the brightness of LED.
	4. Check the cable temperature (it should be lower than 40°C)	- This is to prevent cable overheating, which could result in fire.

Edge Lighting Unit OMEGA ELU

Technical Data

Summary

This unit can be used in general POP, where it maximizes the advantages of LED (both standard and micro-miniature). By using acryl pieces, it can be used for wide range of applications. It is easy to assemble and disassemble, and it is available in various colors (single or multi-colored).

Characteristics

High-efficiency, ultra power-saving, and easy to assemble or disassemble.
High-luminance LED Lamp built-in Various design and size for easy application
High stability and cost-effective maintenance ART neon-replaceable
Beautiful appearance, suitable for various kinds of lighting and mood

Applications

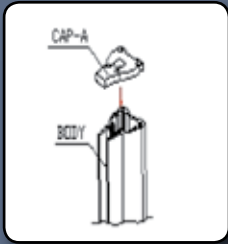
Suitable for all kinds of characters, pictures, display and events.
Suitable for indoor interior or decoration, and indoor sign board

Specification

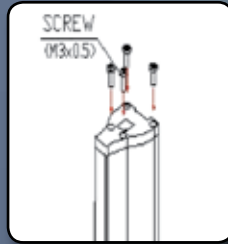
installation type: Stand or rack type
Lighting color: RGB(Variety Color), Red, Blue, Green, Yellow, White
Unit (body) color: Gold, Silver, Blue, Red, Purple
Unit length: 150mm, 200mm, 250mm, 300mm.....2000(50mm)
Voltage: AC 120/240V, 50Hz/60Hz
Operating voltage: DC 12V

Installation Guide

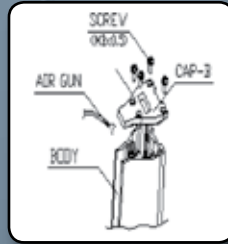
I. Standing type



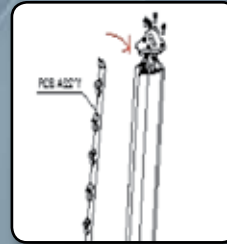
1. Temporarily assemble Cap-A on one side of the body.



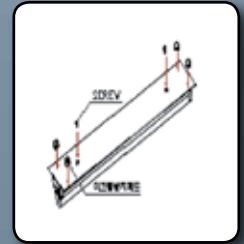
2. After temporarily assembling, insert screws (4 - M3 x 0.5) Remarks: Insert screws diagonally for uniform assembly.
Attention! Do not use excessive force when inserting screws, or the screws can be damaged.



3. Remove chips, using air. 4. Assemble Cap-B, using the same sequence as for Cap-A.
5. Unscrew Cap-B to disassemble, and remove chips. **Attention!** Do not allow any chips to remain, as they can cause electrical shorts.



6. Insert PCB assembly into the body. **Attention!** You must follow the assembly instructions in order for the switch part to face upward. 7. Insert screws in order for Cap-B to face upward.



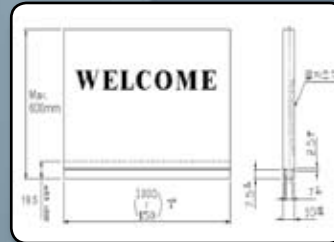
8. Use a body support to screw on the body.

II. Hanging type



1. Unscrew the body support to disassemble
2. Screw using a sleeve nut.
3. Insert a wire through the hole in the cap nut
4. Shape the end of the wire in a ring shape to suit the location and length, and compress an aluminum tube.
Attention! Incomplete compressing may result in a drop.
Attention! It inclines if the wire lengths of both sides are different.
5. Screw a cap nut and a sleeve nut with hands.

III. Acrylic Panel Design



IV. Attention

- ▷ Cutting the adaptor cable may damage a product or cause fire.
- ▷ Do not disassemble or modify.
- ▷ Allowing it to fall may break the product.
- ▷ The product is designed for indoor use, and is not water-resistant.

LEDPIA supplies only light production units, and customers can implement a variety of signs by using these units.

Product Specification

Model : Single Color LED

Length(mm)	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	
Input Voltage(V)	12																		
Current(A)	0.11	0.14	0.18	0.21	0.25	0.28	0.32	0.35	0.39	0.42	0.46	0.49	0.53	0.56	0.60	0.63	0.67	0.70	
Power cumption(W)	1.26	1.68	2.10	2.52	2.94	3.36	3.78	4.2	4.62	5.04	5.46	5.88	6.30	6.72	7.14	7.56	7.98	8.40	
Weight(kg)	0.25	0.33	0.40	0.47	0.54	0.61	0.68	0.76	0.83	0.90	0.97	1.04	1.11	1.19	1.26	1.33	1.40	1.47	

Model : Multi Color LED

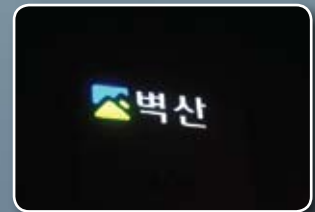
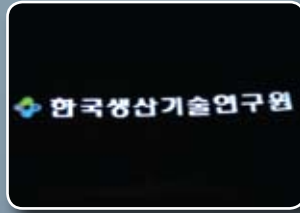
Length(mm)	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	
Input Voltage(V)	12																		
Current(A)	0.21	0.32	0.42	0.53	0.63	0.74	0.84	0.95	1.05	1.16	1.26	1.37	1.47	1.58	1.68	1.79	1.89	2.00	
Power cumption(W)	2.52	3.78	5.04	6.30	7.56	8.82	10.08	11.34	12.60	13.86	15.12	16.38	17.64	18.90	20.16	21.42	22.68	23.94	
Weight(kg)	0.26	0.34	0.41	0.48	0.55	0.63	0.70	0.77	0.85	0.92	0.99	1.06	1.14	1.21	1.28	1.36	1.43	1.50	

Phased Color Change



Supplement

A Construction Photo



ELU Photo



An Installation Process Photo



PRESTURN ASSEMBLY DRAWING



AN EXTERNAL WALL SIGNBOARD ASSEMBLY DRAWING



MARK ASSEMBLY DRAWING



AN EXTERNAL WALL SIGNBOARD ASSEMBLY DRAWING FOR SK C&C

An Exhibition Panorama



'06 OSAKA SIGN EXPO



'06 TOKYO SIGN & DISPLAY



A WATERPROOF PREVIEW



EXHIBITION IN OSAKA

OMEGA LED

Channel Sign & Interior

저전력. 고내구성. 저비용



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TEL.032-816-0571 FAX.032-816-0572

Factory

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68, Gobong-ri, Seongsan-myeon, Gunsan-si, Jeonbuk, Korea

Overseas Agency

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557-0022 大阪市 西成區 中開 1-3-22
TEL.06-6630-6502 FAX.06-6630-6503

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