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**GOQ LED**  
LENS MODULE  
FROSTED MODULE  
HIGH POWER  
LED BAR/WIRE

**NEW PRODUCT**  
3 SPECTRUM MODULE  
3 ECO MODULE

# GOQ LED NEW PRODUCT

sign revolution with GOQ LED

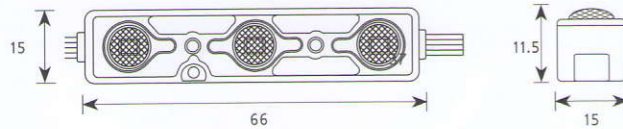
# LENS TYPE [3030]

High-end Premium  
Optical lens

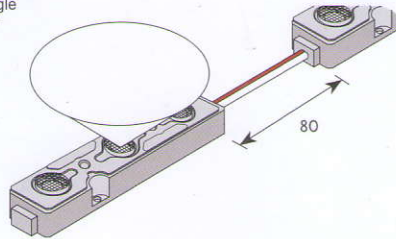
GOQ-Spectrum Module.



3030 SAMSUNG LED Chip  
constant current.



Viewing Angle  
over 170°



unit : mm

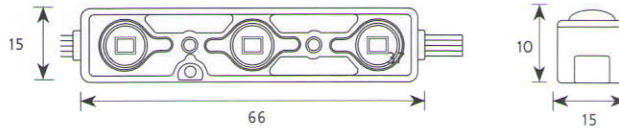
Product No.	GOQ-03WS-SS
Operation Voltage	DC 12V
Current Dissipation	65A
Power Dissipation	0.78W
Viewing Angle	OVER 170°
Luminous Flux(lm)	148lm
LED Nominal CCT	6500K
Working Temperature	-30~70°C
Waterproofing	IP68
Dimension	66L×15W×11.5H mm
Weight	10g

**NEW PRODUCT**  
**3 ECO MODULE**

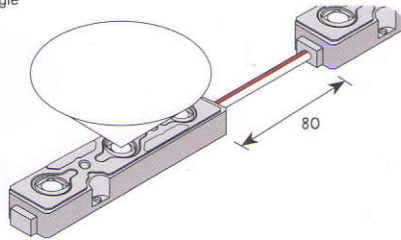
**LENS TYPE**  
**[2835]**



## 2835 SAMSUNG LED Chip



Viewing Angle  
160°

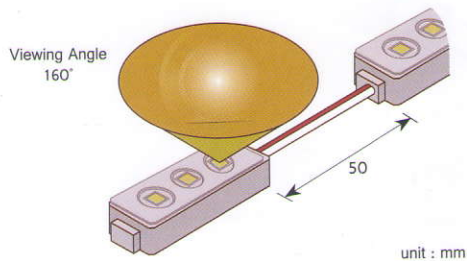
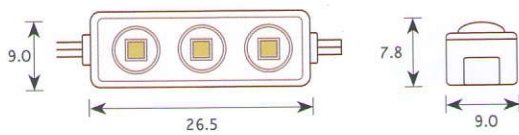
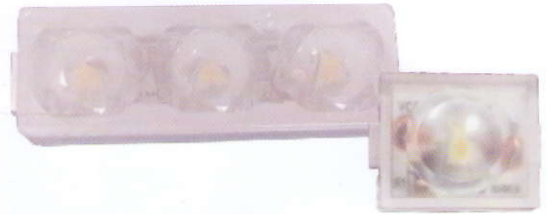


unit : mm

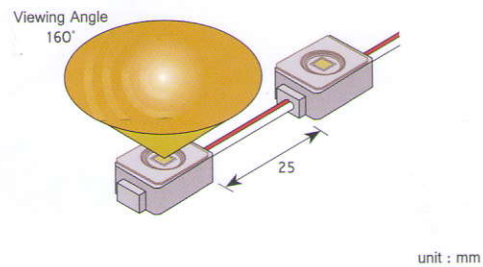
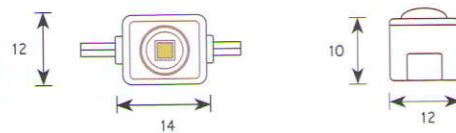
Product No.	GOQ-03WS-SE
Operation Voltage	DC 12V
Current Dissipation	65A
Power Dissipation	0.78W
Viewing Angle	160°
Luminous Flux(lm)	80lm
Working Temperature	-30~70°C
Waterproofing	IP68
Dimension	66L×15W×10H mm
Weight	10g

# FROSTED TYPE

## [2835]



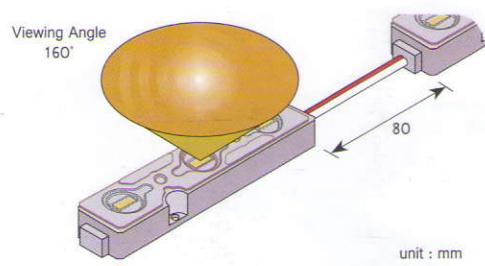
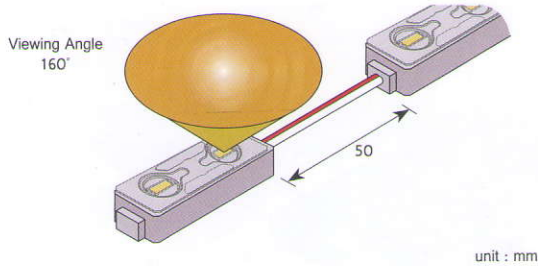
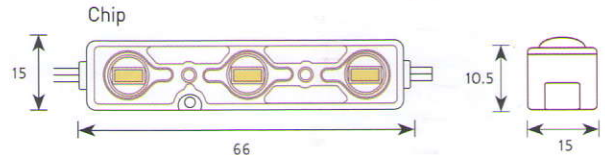
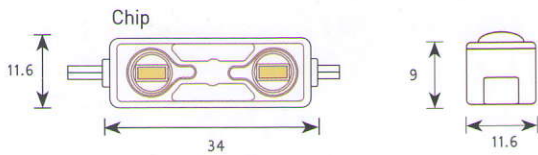
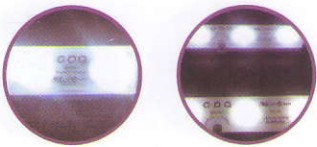
MODEL No	GOQ-03WS-LMDF
Operation Voltage	DC 12V
Current Dissipation	40mA
Power Dissipation	0.48W
Viewing Angle	160°
Luminous Flux(lm)	40lm
Waterproofing	IP68
Dimension	26.5Lx9.0Wx7.8H mm
Weight	2.5g
Working temperature	-30° ~ 70°C



MODEL No	GOQ-01WS-LMDF
Operation Voltage	DC 12V
Current Dissipation	30mA
Power Dissipation	0.36W
Viewing Angle	160°
Luminous Flux(lm)	30lm
Waterproofing	IP68
Dimension	14Lx12Wx10H mm
Weight	2.2g
Working temperature	-30° ~ 70°C

# FROSTED TYPE

## [5630/2835]

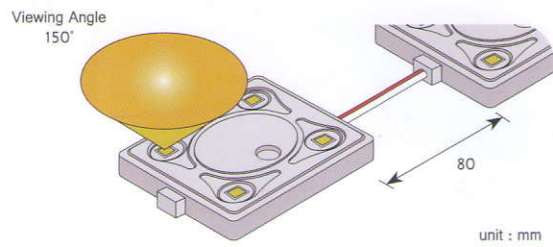
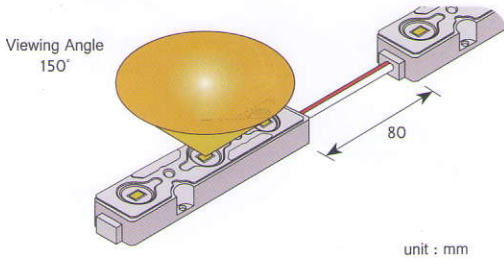
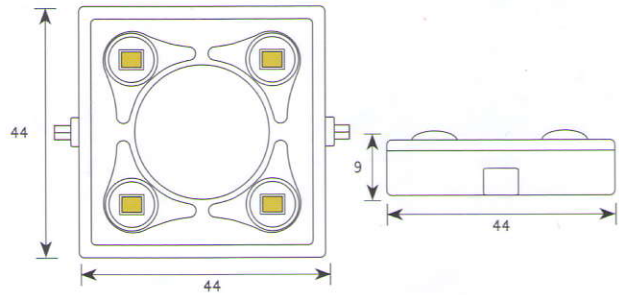
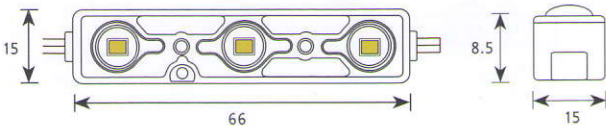
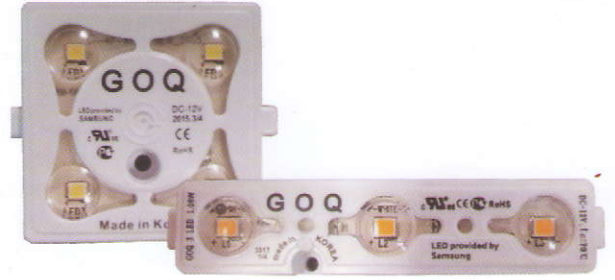


MODEL No	GOQ-02WS-LMDF(2835)
	GOQ-02WS-LMF (5630)
Operation Voltage	DC 12V
Current Dissipation	40mA
Power Dissipation	0.48W
Viewing Angle	160°
Luminous Flux(lm)	60lm
Waterproofing	IP68
Dimension	34Lx11.6Wx9.0H mm
Weight	3.8g
Working temperature	-30° ~ 70°C

MODEL No	GOQ-03WS-LDF(2835)
	GOQ-03WS-LF (5630)
Operation Voltage	DC 12V
Current Dissipation	90mA
Power Dissipation	1.08W
Viewing Angle	160°
Luminous Flux(lm)	130lm
Waterproofing	IP68
Dimension	66Lx15Wx10.5H mm
Weight	8g
Working temperature	-30° ~ 70°C

# LENS TYPE

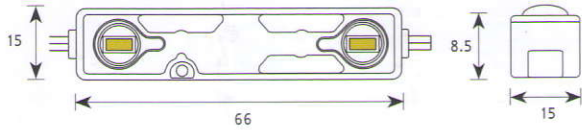
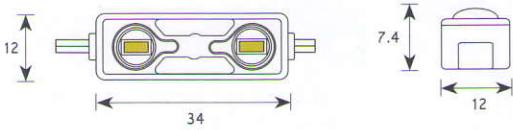
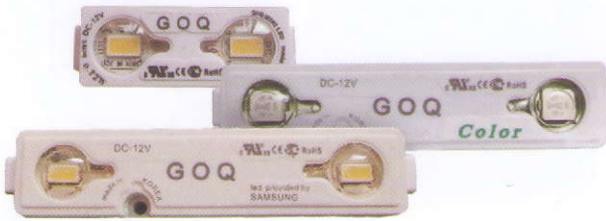
## [2835]



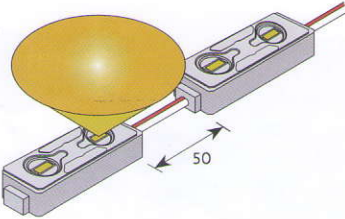
MODEL No	GOQ-03WS-LD1
Operation Voltage	DC 12V
Current Dissipation	90mA
Power Dissipation	1.08W
Viewing Angle	150°
Luminous Flux(lm)	100lm
Waterproofing	IP68
Dimension	66L×15W×8.5H mm
Weight	8g
Working temperature	-30° ~ 70°C

MODEL No	GOQ-04WS-LD1
Operation Voltage	DC 12V
Current Dissipation	120mA
Power Dissipation	1.44W
Viewing Angle	150°
Luminous Flux(lm)	140lm
Waterproofing	IP68
Dimension	44L×44W×9.0H mm
Weight	11g
Working temperature	-30° ~ 70°C

# LENS TYPE (5630)

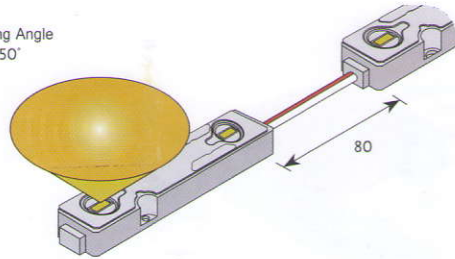


Viewing Angle  
150°



unit : mm

Viewing Angle  
150°



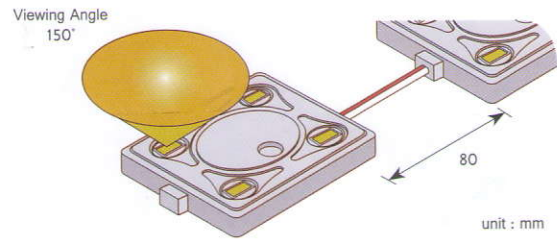
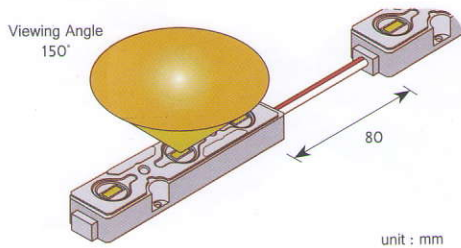
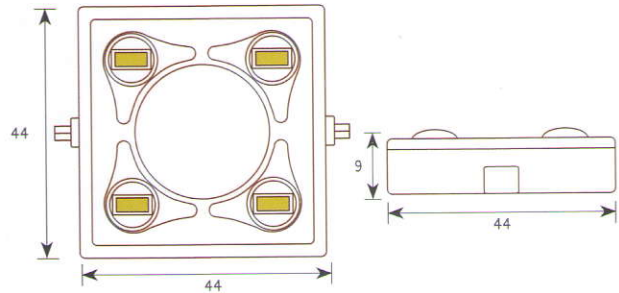
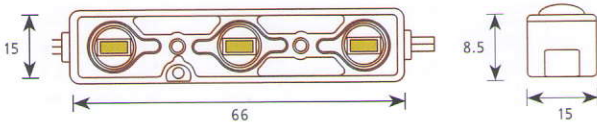
unit : mm

MODEL No	GOQ-02WS-LM			
Color	W	R	G	B
Operation Voltage	DC 12V			
Current Dissipation	40mA			
Power Dissipation	0.48W			
Viewing Angle	150°			
Luminous Intensity(cd)	22,000mcd	1,600mcd	3,000mcd	800mcd
Luminous Flux(lm)	70lm	16lm	30lm	8lm
Dimension	34Lx12Wx7.4H mm			
Weight	3.8g			
Working temperature	-30° ~ 70°C			

MODEL No	GOQ-02WS-L			
Color	W	R	G	B
Operation Voltage	DC 12V			
Current Dissipation	90mA	60mA		
Power Dissipation	1.08W	0.72W		
Viewing Angle	150°			
Luminous Intensity(cd)	25,000mcd	1,600mcd	3,000mcd	800mcd
Luminous Flux(lm)	80lm	16lm	30lm	8lm
Dimension	66Lx15Wx8.5H mm			
Weight	8g			
Working temperature	-30° ~ 70°C			

# LENS TYPE

## [5630]

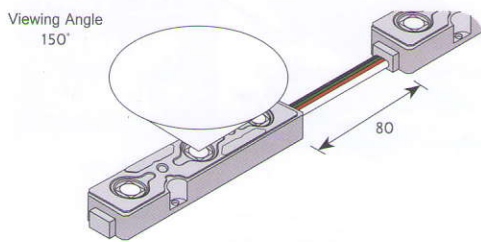
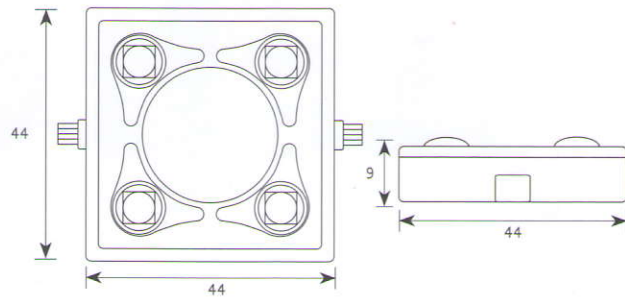
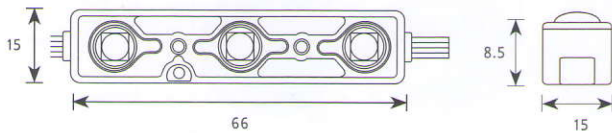
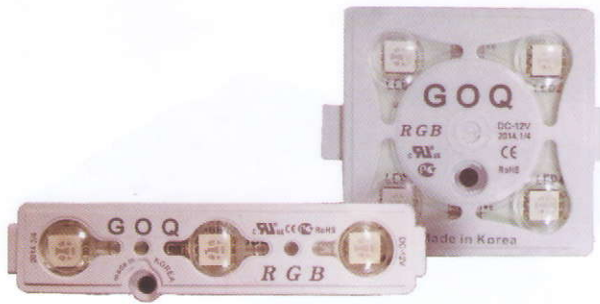


MODEL No	GOQ-03WS-L			
Color	W	R	G	B
Operation Voltage	DC 12V			
Current Dissipation	90mA	60mA		
Power Dissipation	1.08W	0.72W		
Viewing Angle	150°			
Luminous Intensity(cd)	36,000mcd	2,100mcd	4,200mcd	900mcd
Luminous Flux(lm)	120lm	24lm	48lm	9lm
Dimension	66Lx15Wx8.5H mm			
Weight	8g			
Working temperature	-30° ~ 70°C			

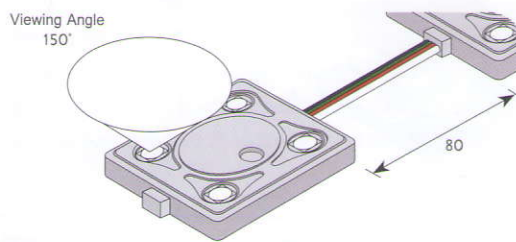
MODEL No	GOQ-04WS-L			
Color	W	R	G	B
Operation Voltage	DC 12V			
Current Dissipation	120mA			
Power Dissipation	1.44W			
Viewing Angle	150°			
Luminous Intensity(cd)	48,000mcd	2,800mcd	5,600mcd	1,200mcd
Luminous Flux(lm)	160lm	32lm	64lm	12lm
Dimension	44Lx44Wx9.0H mm			
Weight	11g			
Working temperature	-30° ~ 70°C			



# LENS TYPE (RGB)



unit : mm

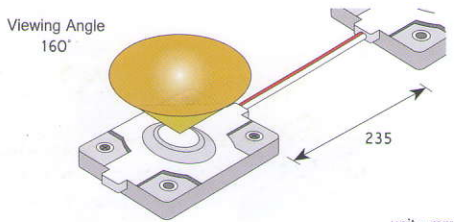
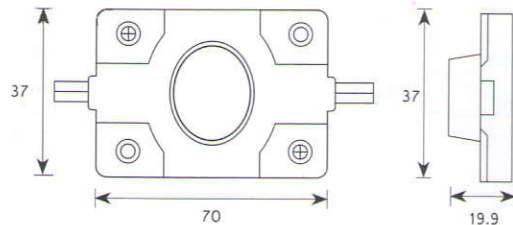
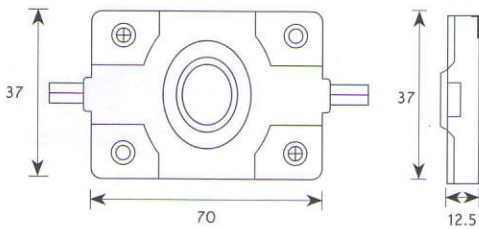
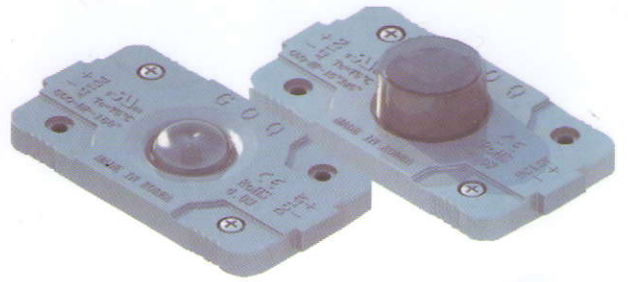
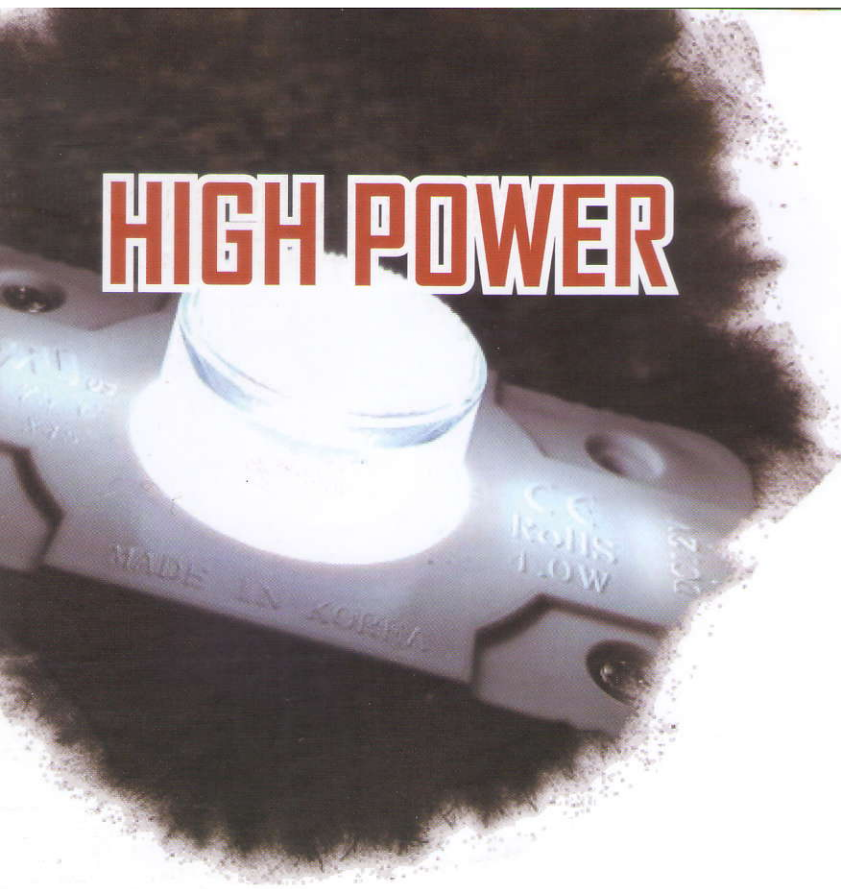


unit : mm

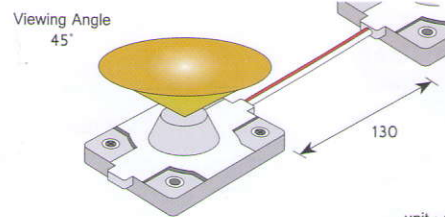
MODEL No	GOQ-03R.G.BD-L
Operation Voltage	DC 12V
Current Dissipation	0.06A(MAX)
Power Dissipation	0.72W(MAX)
Viewing Angle	150°
Working Temperature	-30~85°C
Waterproofing	IP68
Dimension	66L×15W×8.5H mm
Weight	8g
Working temperature	-30° ~ 70°C

MODEL No	GOQ-04R.G.BD-L
Operation Voltage	DC 12V
Current Dissipation	0.12A(MAX)
Power Dissipation	1.44W(MAX)
Viewing Angle	150°
Working Temperature	-30~85°C
Waterproofing	IP68
Dimension	44L×44W×9.0H mm
Weight	11g
Working temperature	-30° ~ 70°C

# HIGH POWER



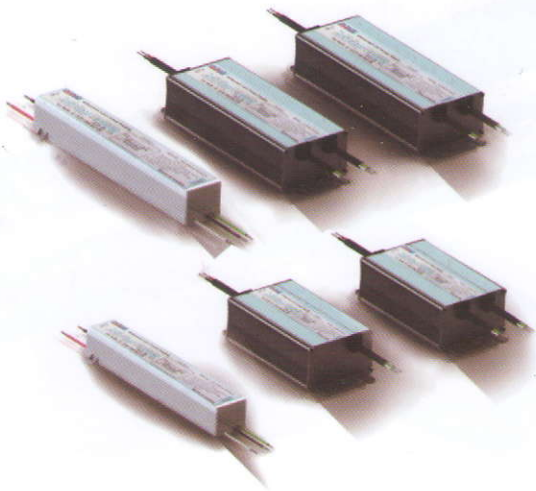
unit : mm



unit : mm

MODEL No	GOQ-HP-160°	GOQ-HP-15°X 45°
Power Consumption	4W	
Input Voltage	DC12V	
Input Current	333mA	
LED Nominal CCT	6500K	
Viewing Angle	160°	15° x 45°
Working temperature	-25° ~ 55°C	-25° ~ 55°C
Luminous Efficiency	75lm/W	78.75lm/W
Luminous Intensity	300lm	315lm
Waterproofing	IP65	
Dimension	70L×37W×12.5H mm	70L×37W×19.9H mm
Weight	25.75g	26g

# POWER [SMPS]



## GOQ LED POWER SUPPLY

### Product features

- ◎ **CV mode design** : constant voltage driving system
- ◎ **Protection** : Over temperature / Over load / Over voltage / Over Current / Short circuit
- ◎ **Design for outdoor installation** : IP68
- ◎ **100% full load burn-in test**
- ◎ **Metal case**
- ◎ **Safety / EMC standards** : CE, RoHS, KC
- ◎ **Suitable for LED lighting and moving sign applications**

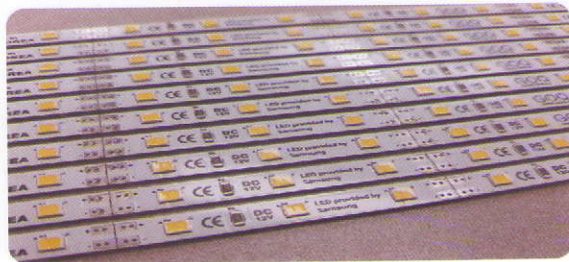
Model No.	DNT-30-12V	DNT-60H-12V	S-100W	S-150W	S-200W	S-300W
Input Voltage	AC 180-240V		AC 180-260V			
Input Max. Power	35W	60W	127W	192W	255W	380W
Output Voltage	12V					
Output Current	2.5A	4.2A	9A	13.5A	18A	27A
Output Power	30W	50.4W	108W	162W	216W	324W
Weight	155g	212g	900g	1,250g	1,250g	1,300g
Size (mm)	188X25X19	202X28X25	187X75X46	212X75X46	222X75X46	242X75X46

# LED BAR

LENGTH : *Custom Size Available.*

SAMSUNG 2835 *Quater Bin.*

## NEW PRODUCT



### GOQ LED BAR TYPE

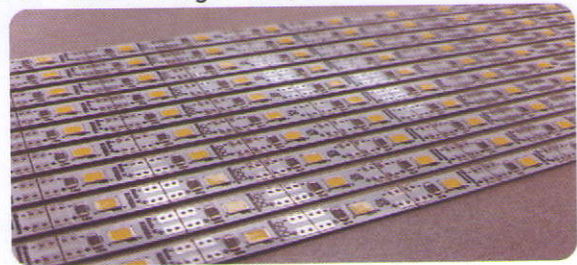
For : **Poster light box, Ceiling lighting**



MODEL No.	LENS LED BAR
Color Temperature	3000-6500K
LED Quantity	12
Power Dissipation	3.6W
Viewing Angle	160°
Working Temperature	-20-50°C
Dimension	570H x 17W x 1L
Housing	PCB, Lens, Non waterproof

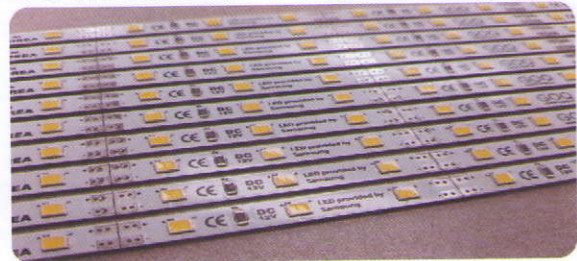


For : **Shallow light box, Small Channel Letter**



**1 LED BAR** : Can cut it one by one

For : **Show cace, Interior, Indirect lighting**

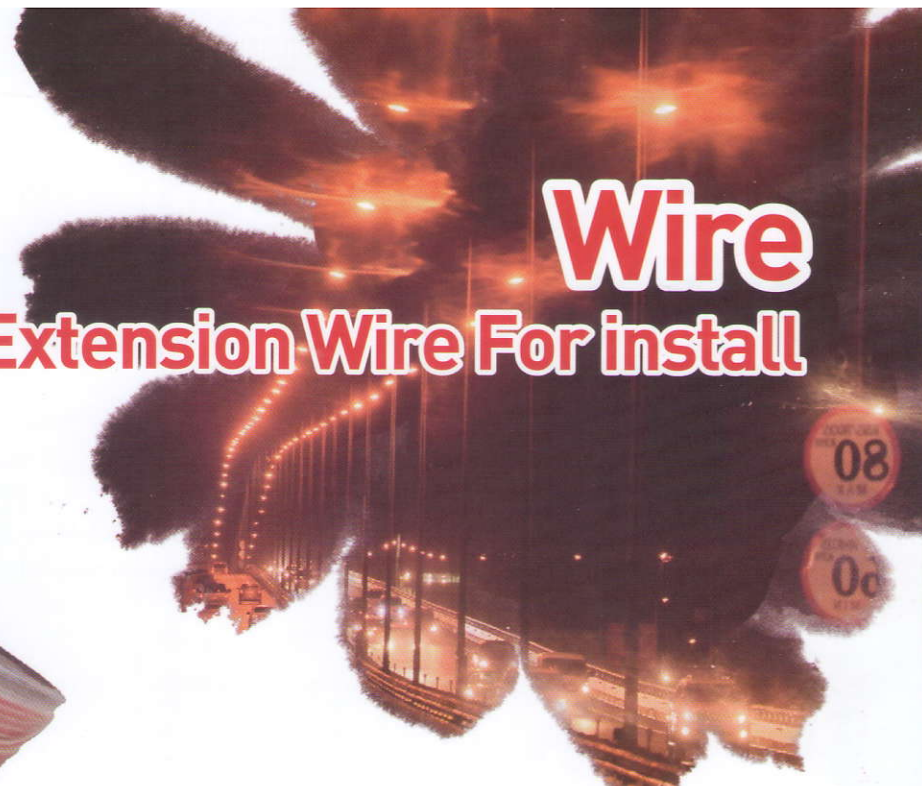


**3 LED BAR** : Can cut it each 3leds

### GOQ-1LED BAR / GOQ-3LED BAR

MODEL No.	1 LED BAR	3 LED BAR
Color Temperature	3000-8000K	3000-8000K
LED Quantity	30	30
Power Dissipation	6W	6W
Viewing Angle	120°	120°
Working Temperature	-20-50°C	-20-50°C
Dimension	500H x 6W x 1L	500H x 6W x 1L
Housing	PCB, Aluminium	PCB, Aluminium

# Wire Extension Wire For install



## Extension Wire For install

➔ Maximum efficiency.

➔ For stability.

➔ Perfect performance.



MODEL No	G0Q-AWG-18
STRANDED CONDUCTOR	
AWG Size	#18
WIRE Length	100m
Stranding	41×0.16T
Out Diameter	2.08×4.16
Allowable Current	12.5(A)
Rating	80°C, 300V

**\* HEAT SHRINKABLE TUBE**



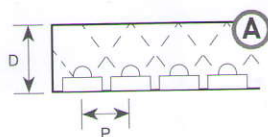
# GOQ LED Modules

## INSTALLATION GUIDE

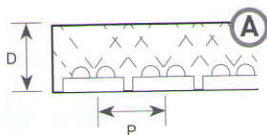
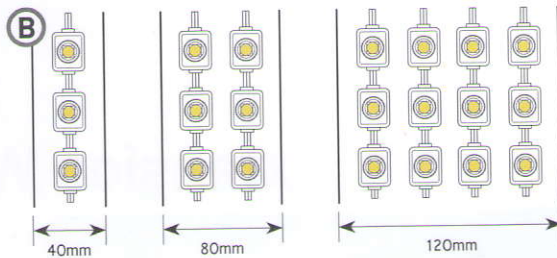
### 01. Layout Density Guidelines

Use recommended length for pitch between each module to achieve optimum lighting output while maintaining lowest unit cost. This may be some differences by optical transmission rate of the PC.

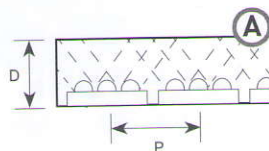
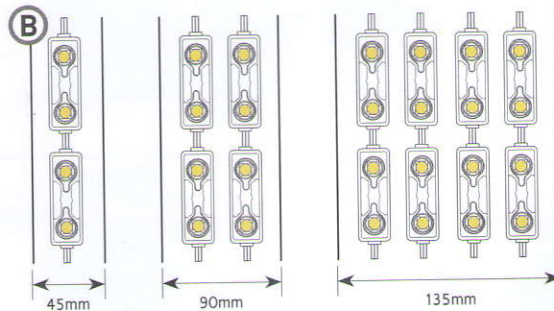
- (A) Recommended Pitch(P) per Depth(D)
- (B) Recommended Layout Density per Channel Width



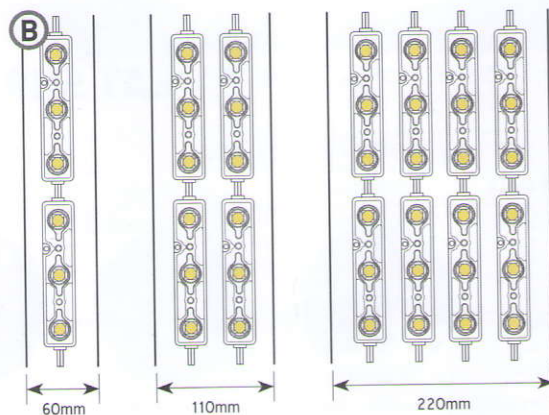
- ① D=30mm → P=30mm
- ② D=50mm → P=40mm



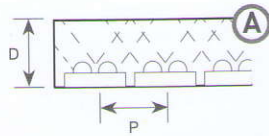
- ① D=30mm → P=50mm
- ② D=50mm → P=65mm



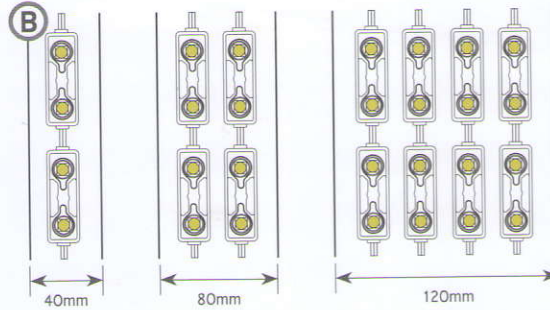
- ① D=30mm → P=85mm
- ② D=50mm → P=100mm



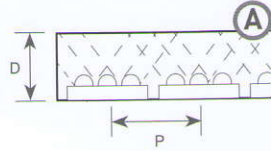
**2MINI LED Module**  
General Type



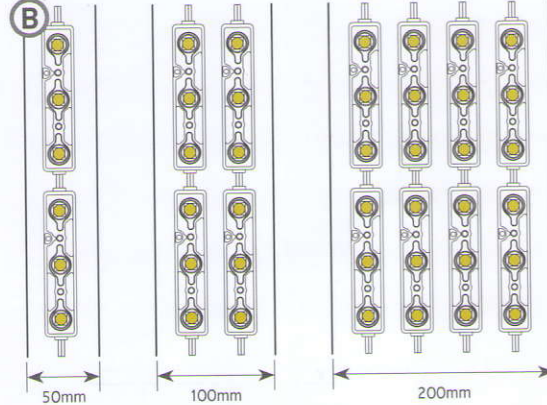
- ① D=60mm → P=55mm
- ② D=80mm → P=66mm



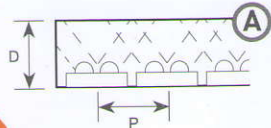
**3LED Module**  
General Type



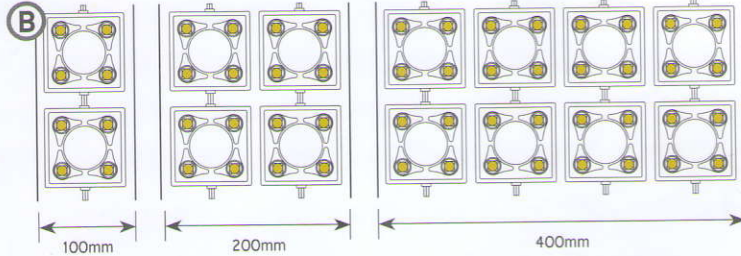
- ① D=80mm → P=100mm
- ② D=100mm → P=110mm



**4LED Module**  
General Type

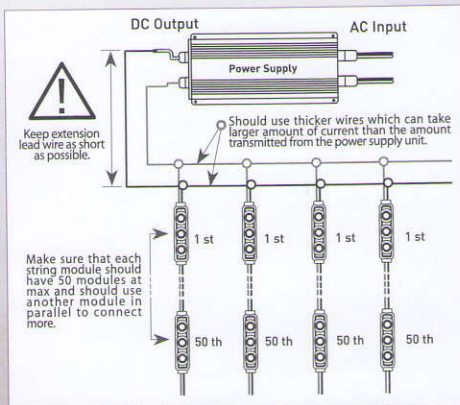


- ① D=100mm → P=110mm
- ② D=120mm → P=124mm



## 02.Connection Guide with POWER SUPPLY

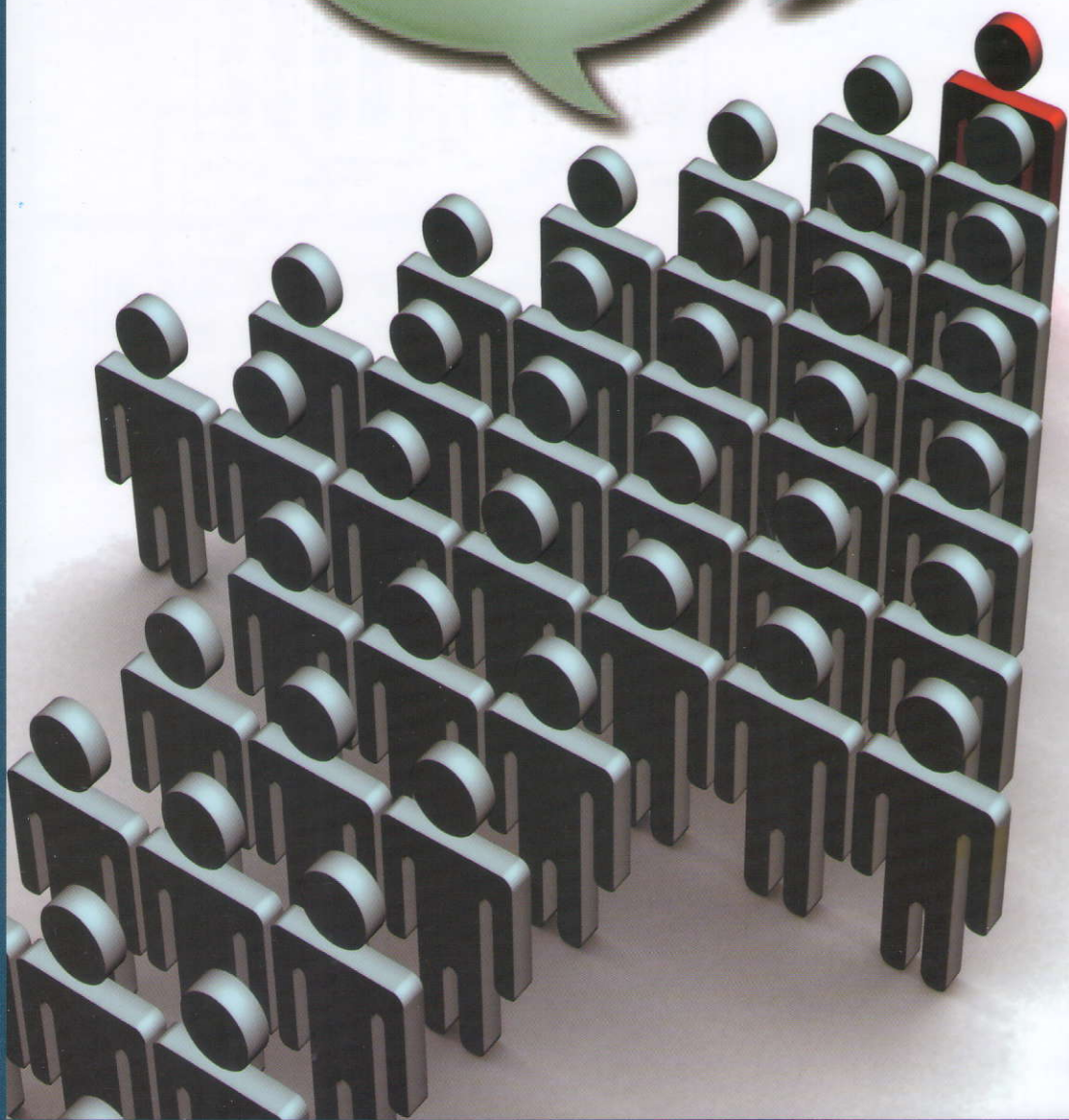
Maximum driver quantity per serial string module is limited.  
Using more quantity per string module will cause overloaded from SMPS which damages all connected products.  
This will cause voltage drop and also dimmed lighting output.



SMPS(W)	100W	150W	200W	300W
<b>LED Module</b>				
1 LED module	118 EA	177 EA	236 EA	354 EA
2 LED module	118 EA	177 EA	236 EA	354 EA
3 LED module	78 EA	118 EA	157 EA	236 EA
4 LED module	39 EA	59 EA	78 EA	118 EA

Maximum quantity for LED module in case of white LED is based on 85% of specified capacity of power supplies for extended lifespan.

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GOQLED.CO.LTD 

**GOQ LED** 42-112, Kyeongbokdae-ro baramgol-gil, Jinjeop-eup, Namyangju-si, Gyeonggi-do, Korea  
**TEL.** 82-2-470-5400 **FAX.** 82-31-571-5303 **E-mail.** goqkorea@gmail.com **Skype ID.** GOQ5440