



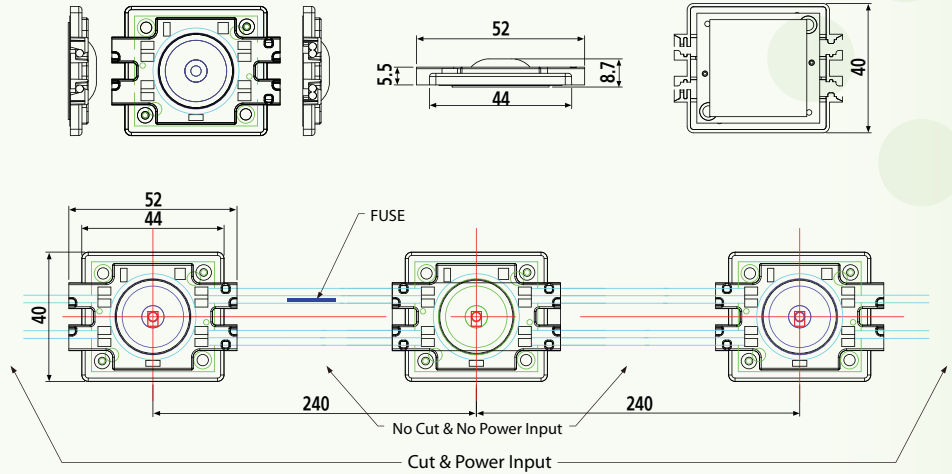
HIGH POWER LED MODULE FOR LARGE SCALE APPLICATION

The WIDE L165 is fabricated with optical lens which helps to makes 165° of viewing angle which is perfect for people who seeks for high power led module with less power consumption for large scale applications. Its consistant white color temperature with specially designed optical lens provides highly reliable lighting source to be used for outdoor lighting, not only for signs. With output of 69LPW, lumen per watt, the WIDE L165 is clearly visible from far distance and even in daylight, making it is highly suitable for large-scale application and outdoor productions. Reliable Lumileds power led has mounted for its most powerful illuminance. Key features of developemnt is may reduce number of modules in requiring around 1/4 at the same space of installation compare to existing low-middle powered led modules. No need to say, you may save your labor cost and installation time very dramatically. You will realize what the word outstanding should mean when you see them on.

- Guaranteed life time up to 50,000 hours with 70% lighting output
*24 hour constant load may result less operating hours with lower lighting output. Estimated lifetime is based on normal usage of 10 hours per day.
- High power Philips Lumileds LED lamp-REBEL Series
- Viewing angle : 165°
- IP65 Rating-Prevents water & dust penetration with integrated plastic case and silicon potting on back
- Constant Current Driving system for stabilize uniform luminous flux
- Flexible chain comprising 15 modules
- Fully integrated heat sink
- Definitely better application efficiency compare to general mid-powered led modules

PHYSICAL

Length : 52mm
 Width : 40.5mm
 Thickness : 11.2mm
 Weight : 30g
 Module Pitch : 240mm



OPTICAL CHARACTERISTICS

Available Color	Luminous Flux (lm)			Color Temperature			Viewing Angle
	Min	Typical	Max	Min	Typical	Max	2 $\theta_{1/2}$
White	160	170	180	6,000K	6,500K	7,000K	165
Warm White	100	110	120	2,600K	2,700K	2,900K	165

*Viewing angle is the off axis angle from lamp centerline where the luminous intensity is half of the peak value
 *Dominant wavelength is derived from the CIE 1931 Chromaticity diagram and represents the perceived color
 *Luminous Flux measuring equipment is CA5140B / *CCT 5% tester tolerance

ELECTRICAL CHARACTERISTICS

Current dissipation : 650mA
 Power Consumption : 2.6W
 Quantity for maximum connection in serial : 15 modules
 Operating power : DC 12V
 Constant Current Driving system
 Electronic dimming control supported

THERMAL

Cooling : Aluminum heatsink & Ambient air
 Maximum operating temperature : 50°C
 Minimum operating temperature : -10°C
 Maximum storage temperature : 60°C
 Minimum storage temperature : -20 C

SAFETY FEATURES

IP65- Prevents water & dust penetration
 Over incoming voltage protection

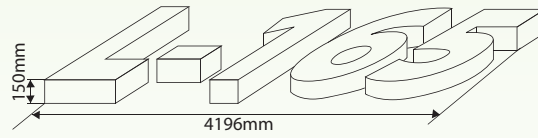
CONSTRUCTION

LED Lamp : Philips Lumileds (Rebel Series)
 Lens : PMMA
 PCB : Intergrated Metallic PCB
 Body : PC transparent resin , 96% transparency
 Filling : Silicon resin for waterproofing
 Lead wire : Silicon Wire, 240mm both sides
 Pre-mounted 3M adhesive taps and M2 screwing hole

APPLICATIONS

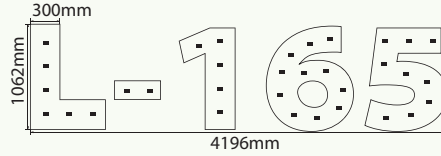
Specially good for ;
 Large Scale Channel letters - open & closed cover
 Flex faced cabinet illumination
 Duplex Signage Light illumination
 Signage and illuminated advertising with depth, more than 120mm

**FACT FROM COMPARISON
FOR CHANNEL LETTER**



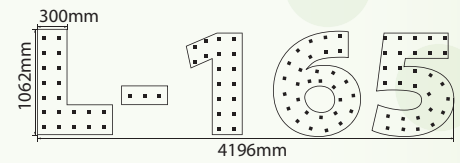
DIMENSION OF CHANNEL LETTER
 COVER : LIGHT DIFFUSION POLY CABONATE
 LENGTH : 4196mm
 WIDTH : 1062mm
 DEPTH : 150mm

WIDE L150 & L165



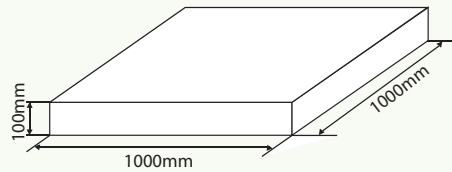
Module Pitch	Q'ty	Power Consumption
240mm	33pcs	86W

4 PIN MIDDLE POWERED LED MODULE



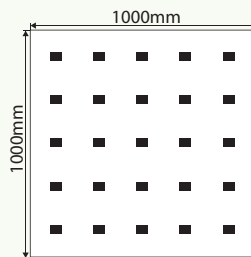
Module Pitch	Q'ty	Power Consumption
150mm	100pcs	114W

**FACT FROM COMPARISON
FOR SIGN CABINET**



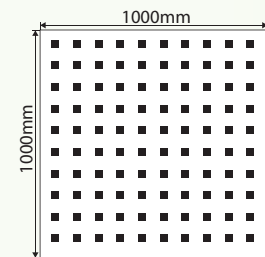
DIMENSION OF SIGN CABINET
 COVER : LIGHT DIFFUSION POLY CARBONATE
 LENGTH : 1000mm
 WIDTH : 1000mm
 DEPTH : 100mm

WIDE L165



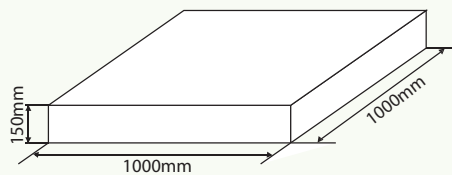
Module Pitch	Q'ty	Power Consumption	lm/W
200mm	25pcs	65W	69

4 PIN MIDDLE POWERED LED MODULE



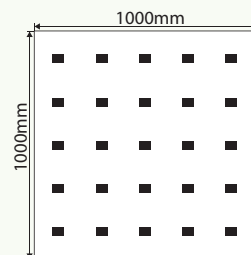
Module Pitch	Q'ty	Power Consumption	lm/W
100mm	100pcs	114W	77

**FACT FROM COMPARISON
FOR SIGN CABINET**



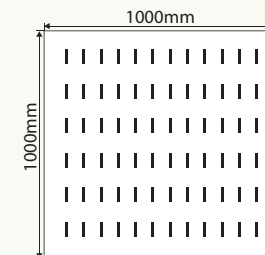
DIMENSION OF SIGN CABINET
 COVER : LIGHT DIFFUSION POLY CARBONATE
 LENGTH : 1000mm
 WIDTH : 1000mm
 DEPTH : 150mm

WIDE L165



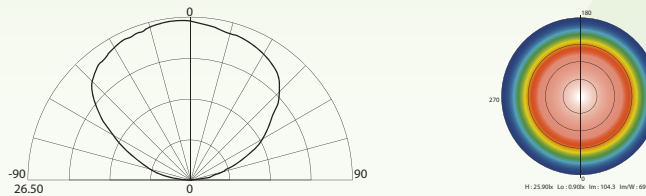
Module Pitch	Q'ty	Power Consumption	Luminous Flux(lx)
240mm	25pcs	65W	3300

3 PIN MIDDLE POWERED LED MODULE



Module Pitch	Q'ty	Power Consumption	Luminous Flux(lx)
160mm	72pcs	44W	3000

LIGHT DISTRIBUTION



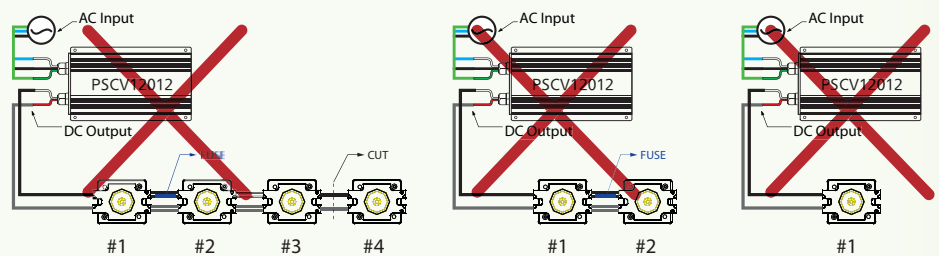
WIRING GUIDE



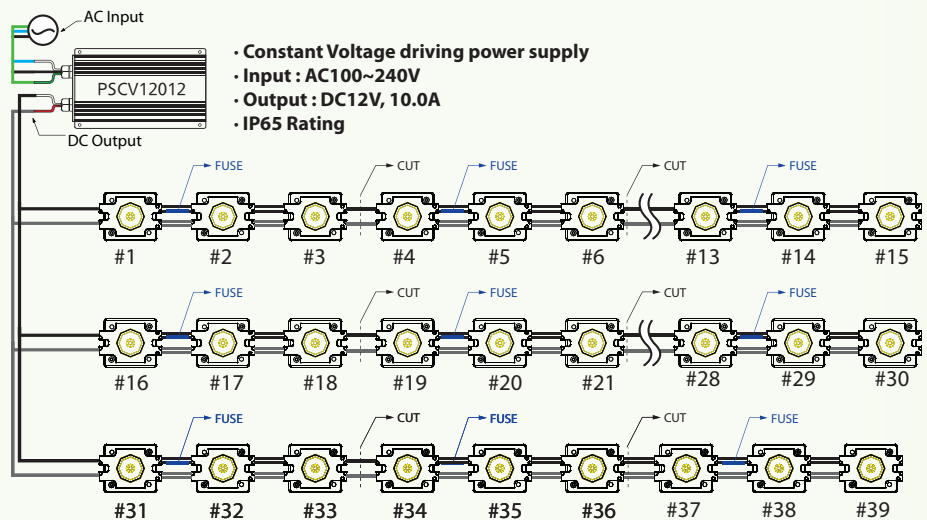
- Make sure that each run should have 15 modules at max and should use another run in parallel to connect more
- Operative by 3 modules, cannot be cut nor input power between module number 1 and 3
- Over incoming voltage or current than rated may causes fuse broken, please carefully check the capacity of power supply and power consumption of LED Module, details listed at page #3.



WRONG CONNECTION



LIGHTING SYSTEM WITH 39NOS OF WIDE L165



FEATURES

PHILIPS LUMILEDS IP65 50,000H LIFETIME
CONSTANT CURRENT DRIVING SYSTEM
DC12V

LOADING

PSCV03012(30W, IP65) : 10modules(2.40meter, 7.87feet)
 PSCV06012(60W, IP65) : 20modules(4.80meter, 15.75feet)
 PSCV12012(120W, IP65) : 40modules(9.60meter, 31.50feet)
 PSCV30012(300W, IP22) : 98modules(23.52meter, 77.16feet)
 PSCV60012(600W, IP22) : 196modules(47.04meter, 154.33feet)
All footage based on 85% of rated capacity

PACKAGING

Inner carton box : 15modules(3.75meter, 12.30feet)
 Master carton box : 150modules(10 inner carton, 37.50meter, 123.03feet)

Specifications subject to change without notice