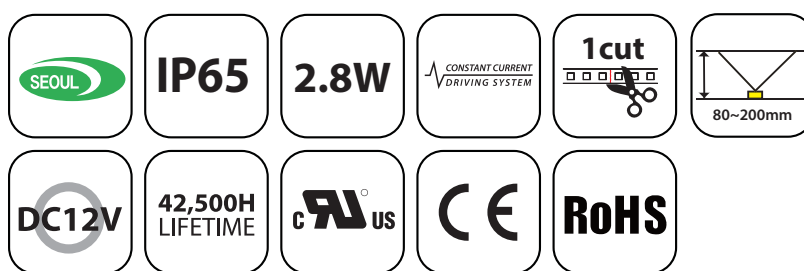


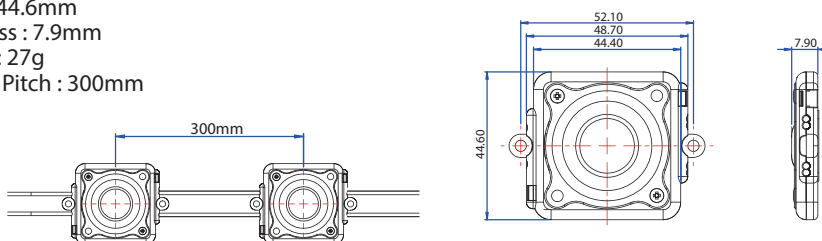
HIGH POWER LED MODULE FOR LARGE SCALE APPLICATION



- Guaranteed life time up to 42,500 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 powered LED lamps
- Viewing angle : 165°
- IP65 Rating-Prevents water & dust penetration with integrated plastic case and silicon potting on back
- Constant Current Driving system for stabilized and uniform luminous flux
- Flexible chain comprising of 10 modules
- Fully integrated heat sink
- Higher application efficiency compared to general mid-powered led modules

PHYSICAL

Length : 52.1mm
Width : 44.6mm
Thickness : 7.9mm
Weight : 27g
Module Pitch : 300mm



OPTICAL CHARACTERISTICS

Available Color	Luminous Flux (lm)			CCT(Kelvin) & Dominant wave length			Viewing Angle 2 $\Theta_{1/2}$
	Min	Typical	Max	Min	Typical	Max	
Daylight White	160	170	180	6,000K	6,500K	7,000K	165
Neutal White	130	140	150	3,800K	4,000K	4,200K	165
Warm White	100	110	120	2,900K	3,100K	3,200K	165
Red	70	95	120	618nm		632nm	165
Green	120	160	200	518nm		530nm	165
Blue	42	56	70	453nm		465nm	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 CAA140B / *CCT 5% tester tolerance

ELECTRICAL CHARACTERISTICS

Current dissipation : 208mA
Power Consumption : 2.8W
Quantity for maximum connection in serial : 10 modules
Operating power : DC 12V
IC Chip-on-board current regulation

THERMAL

Cooling : Ambient air
Operating temperature : -20~50°C
Storage temperature : -20~60°C

SAFETY FEATURES

IP65 : Prevents water & dust penetration

CONSTRUCTION

LED Lamp : High powered LED lamp
Lens : PMMA
PCB : Intergrated Metallic PCB
Body : PC
Filling : Silicon resin for waterproofing
Lead wire : AWG18
Pre-mounted 3M adhesive taps and M3 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, 80mm ~200mm

APPROVAL

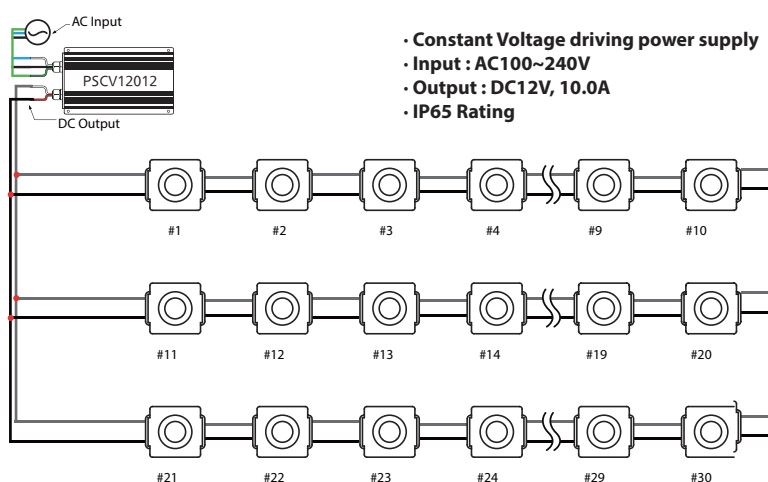
EN 55015/A2 : 2009
EN 61547/2009
EN 62031/2008
EN 62471/2006
UL879 -U.S Standard for Electric Sign Components
C22.2 No. 207-M89-Canadian Standard for Portable and Stationary Electric Signs and Displays

WIRING GUIDE



- Make sure that each run should have 10 modules-use another run in parallel to connect more
- Over voltage or current(higher) than rated may causes fuse blow,
- please carefully check the capacity of power supply and power consumption of LED Module, details listed in below.

LIGHTING SYSTEM WITH 30NOS OF WIDE L165 1P



PACKAGING

Inner carton box : 20modules(5.04meter, 16.54feet)
Master carton box : 200modules(10 inner carton, 70.56meter, 231.50feet)

Specifications subject to change without notice