



MAXIMUM COST-EFFECTIVE LIGHTING SOLUTION

IP63

CONSTANT CURRENT DRIVING SYSTEM

REVERSE VOLTAGE PROTECTION

80~200mm

DC12V

42,500H LIFETIME

UL US

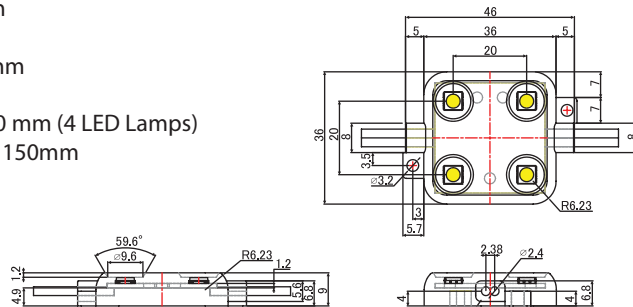
CE

RoHS

- 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.
- Uniform color temperature by strictly controlled system of bin rank
- Transparent PVC body for tough environment
- Reverse voltage protection to minimize hassles during installation
- Extremely small and light solution for low-profile channel letters and confined spaces
- 70% more energy efficiency compared to conventional sign lighting source
- 81LPW : highly efficient illumination

PHYSICAL

Length : 46mm
 Width : 36mm
 Thickness : 9mm
 Weight : 20g
 Lamp Pitch : 20 mm (4 LED Lamps)
 Module Pitch : 150mm



OPTICAL CHARACTERISTICS

Available Color	Luminous Flux(lm)			Dominant Wave Length & Color Temperature			Viewing Angle
	Min	Typical	Max	Min	Typical	Max	2θ _{1/2}
Cool White	48		68	9,000K	10,000K	11,000K	120
Daylight White	48		68	5,000K	6,500K	7,000K	120
Neutral White	43		62	4,000K	4,200K	4,400K	120
Warm White	43		62	2,700K	3,000K	3,200K	120
Red	19		25	620nm		625nm	120
Green	38		50	525nm		530nm	120
Blue	8		9	455nm		460nm	120

*CRI (Color Rendering Index) for white product types is 70 / *Luminous Flux measuring equipment is CAS140B
 *Viewing angle is the off axis angle from lamp centerline where the luminous intensity is half of the peak value / *CCT 5% tester tolerance
 *Dominant wavelength is derived from the CIE 1931 Chromaticity diagram and represents the perceived color
 *Color temperature for white is strictly controlled by bin rank system and it consists of three ranks which should not be used simultaneously.

ELECTRICAL CHARACTERISTICS

Current dissipation : 90mA(Colored: 60mA)
 Power Consumption : 1.08W(Colored: 0.72W)
 Operating power : DC 12V
 Quantity for maximum connection in serial : 50 modules
 Electronic dimming control supported
 IC Chip-on-board current regulation

THERMAL

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

SAFETY FEATURES

Reverse voltage protection

CONSTRUCTION

LED Lamp : 5050 Package
 Body : PVC(Polyvinyl Chloride) transparent resin, 96% transparency
 PCB : FR-4 fiber glass epoxy resin, quad layered
 Lead wire : 18 AWG

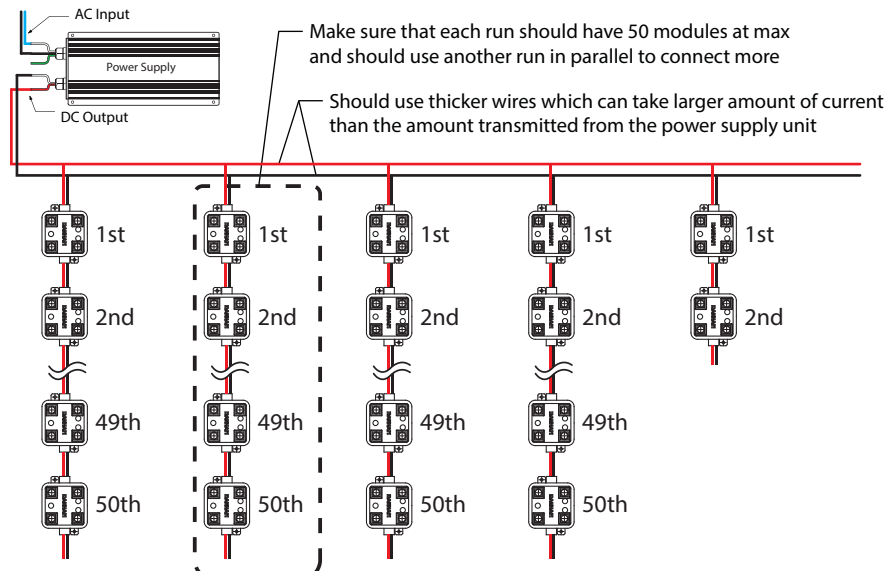
APPLICATIONS

Channel letters - closed cover
 Reverse halo lighting
 Border lighting
 Point-Of-Purchasing signage
 Art & sculpture and cove lighting
 Facade lighting

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



LOADING

PSCV03012(30W, IP65) : 24modules(3.60meter, 11.81feet)
 PSCV06012(60W, IP65) : 47modules(7.05meter, 23.13feet)
 PSCV12012(120W, IP65) : 94modules(14.10meter, 46.26feet)
 PSCV30012(300W, IP22) : 236modules(35.40meter, 116.14feet)
 PSCV60012(600W, IP22) : 472modules(70.80meter, 232.28feet)
 All footage based on 85% of rated capacity

PACKAGING

Anti-static gray-colored vinyl bag : 50modules(7.50meter, 24.61feet)
 Master carton box : 500modules(10 vinyl bags, 75.00meter, 246.06feet)

Specifications subject to change without notice