



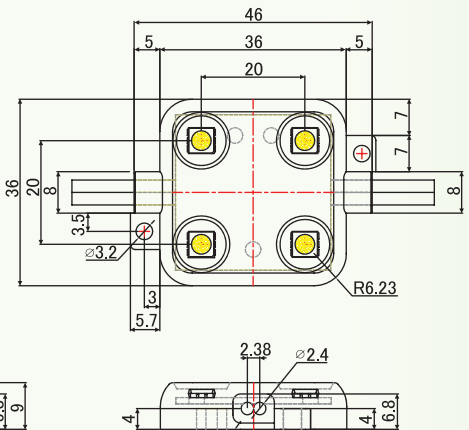
MAXIMUM COST-EFFECTIVE LIGHTING SOLUTION

The STAR C04 is transparent LED module lighting system perfect for those of who need maximum lighting output at lowest cost. With output of 81LPW, lumen per watt, the STAR C04 is clearly visible from far distance and even in daylight, making it is highly suitable for large-scale application. One truly innovative aspect of the STAR C04 is its 96% transparent body, which allows strong PVC body not to dim lighting output from the LED lamp. While maintaining its extreme energy efficiency, it also provides reliable assurance with Samsung LED technology that lighting output remains 70% level out of initial output after using 42,500 hours. Please, let us welcome you to our hassle free lighting system.

- 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 (0.79 in., 4 LED Lamps)
 Module Pitch : 150mm



OPTICAL CHARACTERISTICS

Available Color	Luminous Flux(lm)& Luminous Intensity(cd)			Dominant Wave Length & Color Temperature			Viewing Angle 2θ _{1/2}
	Min	Typical	Max	Min	Typical	Max	
White	47.1lm	65.9lm		9,000K	10,000K	11,000K	120
Daylight White	49.0lm	67.8lm		5,000K	6,500K	7,000K	120
Mid-Warm White	49.0lm	67.8lm		4,000K	4,200K	4,400K	120
Warm White	42.4lm	61.2lm		2,700K	3,000K	3,200K	120
Red	1.8cd			620nm		625nm	120
Green	6.0cd			525nm		530nm	120
Blue	0.76cd			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 : 90 mA(Colored:60mA)
 Power Consumption : 1.08 W(Colored:0.72W)
 Operating power : DC 12V
 Quantity for maximum connection in serial : 50 modules
 Electronic dimming control supported
 Constant current drive
 Reverse voltage protection

THERMAL

Cooling : Ambient air
 Maximum operating temperature : 60°C (140°F)
 Minimum operating temperature : -25°C (-13°F)
 Maximum storage temperature : 60°C (140°F)
 Minimum storage temperature : -30 C (-22 F)

SAFETY FEATURES

Reverse voltage protection : Device will prevent incoming power source on improper input connection

CONSTRUCTION

White LED Lamp : Single-Die chip, 5252
 Color LED Lamp : Double-Die chip, 5252
 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 lightin
 Facade lighting

APPROVAL

EN 55015/A2 : 2009
 EN 61547/2009
 EN 62031/2008
 EN 62471/2006



FEATURES



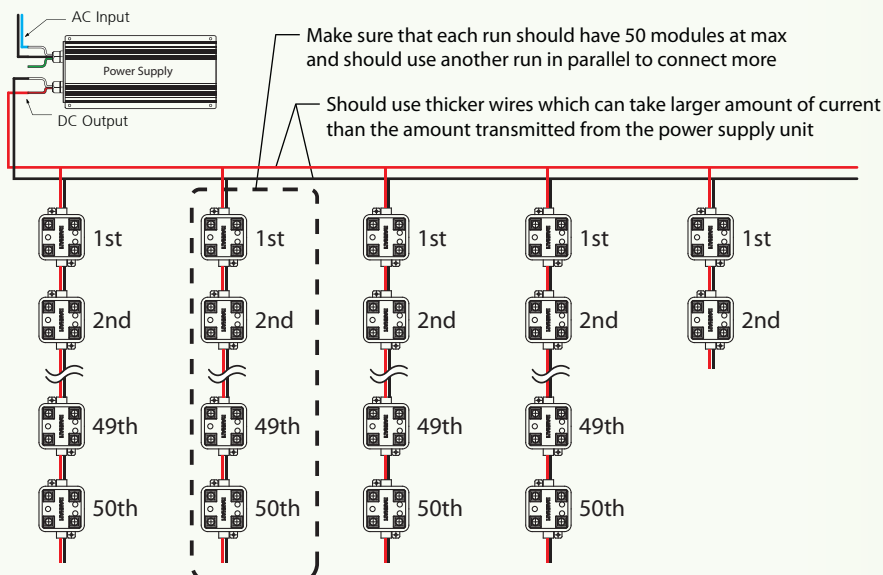
42,500H LIFETIME

IP63



DC12V

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