

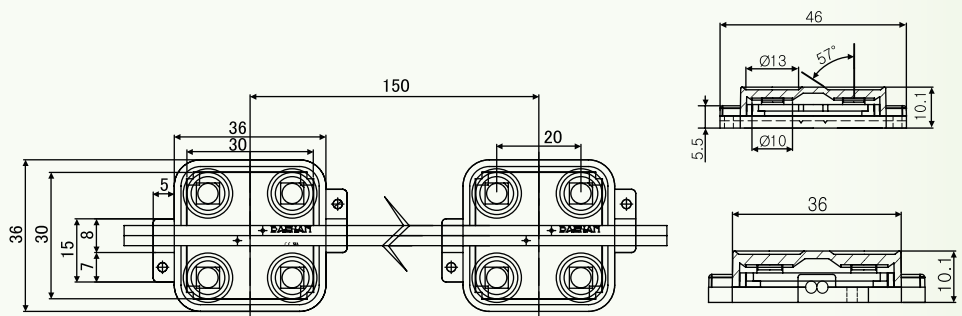
MAXIMUM COST-EFFECTIVE LIGHTING SOLUTION

The STAR F04 is transparent LED module lighting system perfect for those of who need maximum lighting output at lowest cost. The STAR F04 is clearly visible from far distance and even in daylight, making it is highly suitable for large-scale application and outdoor productions. One truly innovative aspect of the STAR F04 is its 96% transparent body, which allows strong PC body not to dim

- Guaranteed life time up to 42,500 hours whit 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 binning
- Transparent PC body for tough environment
- IP65 : Prevents water & dust penetration
- NonPolar Input Connection
- Light and cost-Effective solution for low-profile channel letters and confined spaces

PHYSICAL

Length : 36mm
 Width : 36mm
 Thickness : 10.1mm
 Weight : 17g
 Lamp Picth : 20 mm (4 LED Lamps)
 Module Pitch : 150mm



OPTICAL CHARACTERISTICS

Available Color	Luminous Flux(lm)& Luminous Intensity(cd)			Dominant Wave Length & Color Temperature			Viewing Angle
	Min	Typical	Max	Min	Typical	Max	2Θ _{1/2}
White	47.1lm			8,200K		11,000K	120
Daylight White	56.5lm			4,500K		6,000K	120
Warm White	47.1lm			2,500K		3,000K	120
Red	4.5cd			620nm		630nm	120
Green	6.0cd			525nm		535nm	120
Blue	1.2cd			455nm		465nm	120

*CRI (Color Rendering Index) for white product types is 70 / *Spectral width at half of the peak intensity / *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 : 110 mA±10%
 Power Consumption : 1.32 W±10%
 Operating power : DC 12V
 Quantity for maximum connection in serial : 50 modules
 Electronic dimming control supported
 Constant current drive

THERMAL

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

SAFETY FEATURES

IP65 : Prevents water & dust penetration
 Nonpolar Voltage Protection : STAR F04 is nonpolar DC powered device

CONSTRUCTION

White LED Lamp : Single-Die chip, 5252
 Color LED Lamp : Tri-Die chip, 5252
 Body : PC(Poly Carbonate) transparent resin, 96% transparency
 PCB : CEM-1
 Lead wire : 18 AWG

APPLICATIONS

Channel letters - open & closed cover
 Reverse halo lighting
 Border lighting
 Point-Of-Purchasing signage
 Art & sculpture and cove lighting
 Replacement for conventional lighting system

APPROVAL

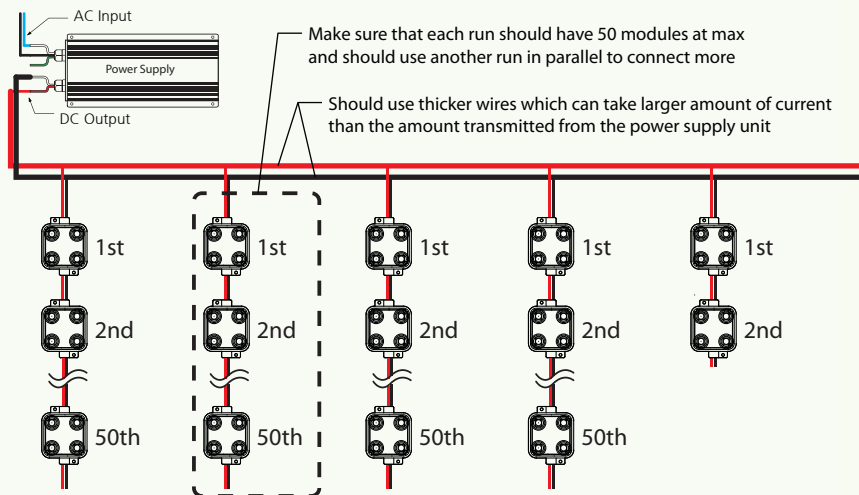
EN 55015/A2 : 2009
 EN 61547/2009
 EN 62031/2008
 EN 62471/2006



FEATURES



WIRING GUIDE



LOADING

PSCV03012(30W, IP65) : 19modules(2.85meter, 9.35feet)
 PSCV06012(60W, IP65) : 38modules(5.70meter, 18.70feet)
 PSCV12012(120W, IP65) : 77modules(11.55meter, 37.89feet)
 PSCV30012(300W, IP22) : 193modules(28.95meter, 94.98feet)
 PSCV60012(600W, IP22) : 386modules(57.90meter, 189.96feet)
 All footage based on 85% of rated capacity

PACKAGING

Anti-static gray-colored vinyl bag : 50modules(7.50meter, 24.60feet)
 Master carton box : 500modules(10 vinyl bags, 75.00meter, 246.06feet)

Specifications subject to change without notice