



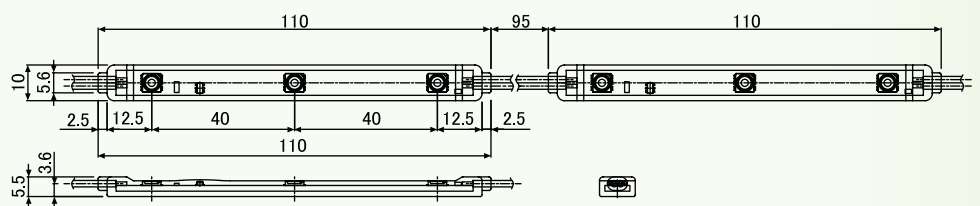
ULTRA THIN BAR-TYPE LED MODULES

The STAR C0340, transparent LED module lighting system perfect for those of who need maximum lighting output at lowest cost. It is made for low-profile channel letters with large channel width since its thickness is only 5.5mm at width of 10mm. C0340 is good for large letters which depth is more than 120mm up to 250mm. Each module of C0340 will cover up much more spaces than any other models available. For small letters with depth less than 150mm, another range of ULTRA THIN BAR-TYPE LED MODULES, C0230 & C0320 will led you most reasonable installation cost . Our ULTRA THIN BAR-TYPE LED MODULES will bring you the most competitive solution for your application including retrofit lighting source for neon signs and general illuminations.

- Guaranteed lifetime 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, indoor
- 70% more energy efficiency compared to conventional sign lighting source
- Quality and reliability assured

PHYSICAL

Length : 110mm
 Width : 10mm
 Thickness : 5.5mm
 Weight : 10g
 Lamp Pitch : 40 mm (3 LED Lamps)
 Module Pitch : 205mm



OPTICAL CHARACTERISTICS

Available Color	Luminous Flux(lm)& Luminous Intensity(cd)			CCT (Kelvin) & Dominant Wave Length			Viewing Angle 2Θ _{1/2}
	Min	Typical	Max	Min	Typical	Max	
White	35.3lm	49.4lm	49.4lm	9,000K	10,000K	11,000K	120
Daylight White	36.7lm	50.8lm	50.8lm	5,000K	6,500K	7,000K	120
Mid-Warm White	36.7lm	50.8lm	50.8lm	4,000K	4,200K	4,400K	120
Warm White	31.8lm	45.9lm	45.9lm	2,700K	3,000K	3,200K	120
Red	1.35cd			623nm	625nm	628nm	120
Green	4.5cd			525nm	527nm	530nm	120
Blue	0.56cd			455nm	460nm	465nm	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 : 50mA
 Power Consumption : 0.6W
 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 : 20AWG

APPLICATIONS

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

APPROVAL

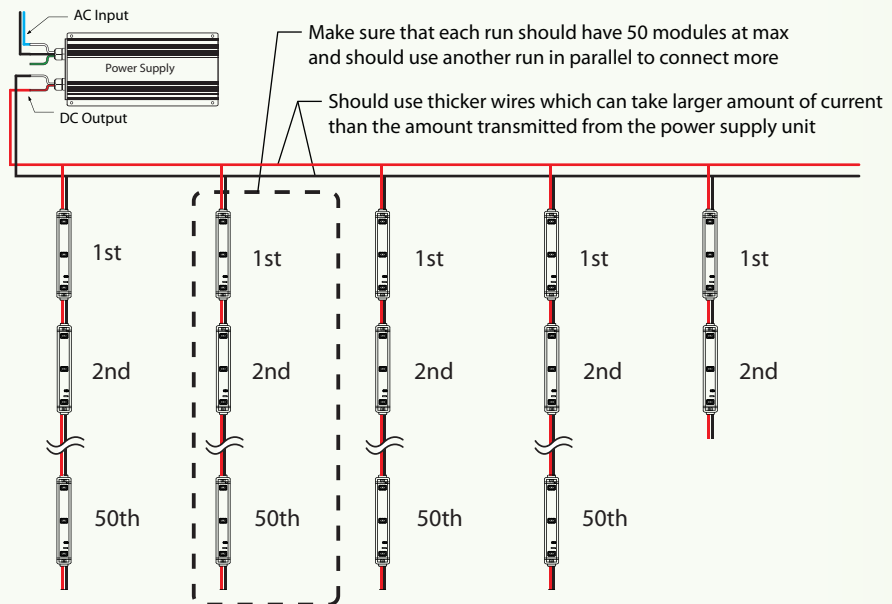
EN 55015/A2 : 2009
 EN 61547/2009
 EN 62031/2008
 EN 62471/2006



FEATURES



WIRING GUIDE



LOADING

PSCV03012(30W, IP65) : 43modules(8.82meter, 28.94feet)
 PSCV06012(60W, IP65) : 85modules(17.43meter, 57.19feet)
 PSCV12012(120W, IP65) : 170modules(34.85meter, 114.34feet)
 PSCV30012(300W, IP22) : 425modules(87.13meter, 285.86feet)
 PSCV60012(600W, IP22) : 850modules(174.25meter, 571.69feet)
 All footage based on 85% of rated capacity

PACKAGING

Anti-static gray-colored vinyl bag : 50modules(10.25meter, 33.63feet)
 Master carton box : 800modules(16 vinyl bags, 164.00meter, 538.06feet)

Specifications subject to change without notice