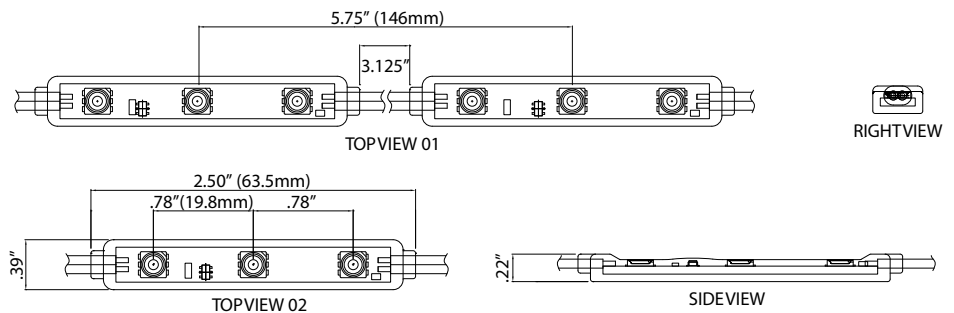


The STAR NOVA 3 is a transparent LED module lighting system perfect for those who need maximum lighting output at the lowest cost and small size. With an output of 37 lm, the STAR NOVA 3 is clearly visible from a far distance and even in daylight, making it highly suitable for large-scale application and outdoor productions. One truly innovative aspect of the STAR NOVA 3 is its 96% transparent body, which allows the strong PVC body not to dim the lighting output from the LED lamp. While maintaining its extreme energy efficiency, it also provides reliability provided by Samsung LED technology that lighting output remains at a 70% level of initial output, even after 42,500 hours of use. This is truly a premium, hassle free and long term lighting system.

- 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.
- IP65 weatherproof / waterproof system (Non-submersible)
- Uniform color temperature by strictly controlled system of bin rank
- Transparent PVC body for tough environment protection
- Reverse voltage protection to minimize hassles during installation
- Extremely small and lightweight solution for low-profile channel letters, both indoor or outdoor
- 70% more energy efficiency compared to conventional sign lighting source
- 3M™ VHB™ Grey Mounting tape for the best long term mounting solution

PHYSICAL

Length : 2.50 in. (63.5mm)
 Width : 0.39 in. (10mm)
 Thickness : 0.22 in. (5.5mm)
 Weight : 5.4g
 LED Lamp Pitch : 0.79 in. (20mm, 3 LED Lamps)
 LED Lamp Specification : SLSNNWH815TSASSS (Samsung Electro-mechanics)



OPTICAL CHARACTERISTICS (White)

Model	Luminous Flux (lm)		Color Temperature (Kelvin)		Viewing Angle
	Typical	Max	Min	Typical	
STAR NOVA 3	37	39	9,100K	10,000K	2Θ _{1/2}

* 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.
 * Available color: white

ELECTRICAL CHARACTERISTICS

Current dissipation : 56 mA
 Power Consumption : 0.70 W
 Operating power : 12VDC Constant Voltage
 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: 140°F (60°C)
 Minimum operating temperature: -13°F (-25°C)
 Maximum storage temperature: 140°F (60°C)
 Minimum storage temperature: -22°F (-30°C)

SAFETY FEATURES

ESD Protection : Industry standard electro-static discharge protection
 IP65 : weatherproof / waterproof, prevents water & dust penetration, (Non-submersible)
 Reverse voltage protection : Device will prevent incoming power source on improper input connection

CONSTRUCTION

White LED Lamp : 3 chips white phosphor LED lamp, chip & packaging by Samsung
 Color LED Lamp : 2 chips LED lamp, chip & packaging by Samsung
 Body: PVC (Polyvinyl Chloride) transparent resin, 96% transparency
 PCB : FR-4 fiber glass epoxy resin, quad layered
 Lead wire : Copper solid wire, semi-rigid PVC, UL VW-1, CSA 80 celsius 300V

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
 Maximum output white

APPROVAL

EN 55015:2000+A1:2001+A2:2002 Class B
 EN 61547:1995+A1:2000



FEATURES

IP65

**WEATHER
PROOF**



Specifications subject to change without notice