


Characteristic


Single-Bin  
SMD2835


IP68


DC12V




50,000H  
LIFETIME



Wide Angle  
150°  




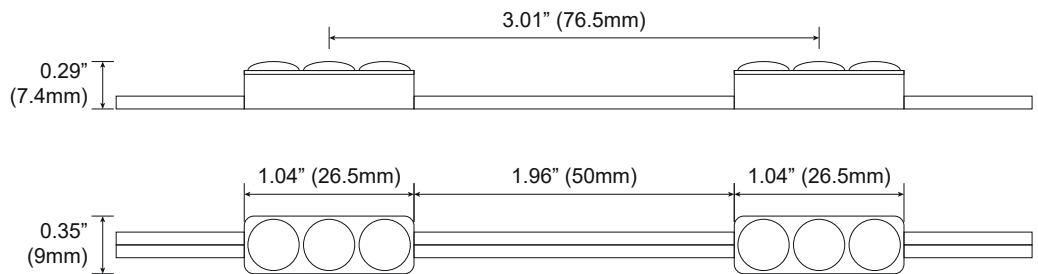








· High Luminous Efficacy LED Module Solution for Signage and Cabinets

- Electrical and material safety certified (UL, CE and RoHS Certificates)
- Industry-leading, single-bin SMD2835 LED chips
- Ultra Sonic Welding Technology provides extreme weather protection (IP68)
- Secure and easy fastening with genuine double coated tissue 3M adhesive
- Guaranteed lifetime of more than 50,000 hours (L70)
- High strength polycarbonate lens + ABS plastic body for harsh environments
- Fully integrated 150° optical lens for wide and evenly distributed light

Physical



Optical Characteristic

Model	STAR MINI3-R	STAR MINI3-G	STAR MINI3-B	STAR MINI3-A
Color	 Red	 Green	 Blue	 Amber
Luminous Efficiency (lm/W)	35	87	21	80
Current Dissipation (mA)	30mA	40mA	40mA	40mA
Power Consumption (Watt)	0.36W	0.48W	0.48W	0.48W
Viewing Angle	150 (2θ½)			

**Electrical Characteristics**

Current dissipation: ■ 30mA      ■ 40mA      ■ 40mA      ■ 40mA  
 Power consumption: ■ 0.36W      ■ 0.48W      ■ 0.48W      ■ 0.48W  
 Operating power: DC 12V  
 Maximum quantity for serial connection: 50 modules  
 Supports 12V dimming

**Thermal**

Heat dissipation: Ambient air  
 Operating ambient temperature: -4°F to 140°F

**Waterproof Rating**

IP68: Complete protection against dust ingress and water

**Construction**

LED type: SMD 2835  
 Body, Lens, PCB: ABS, PC and FR-4  
 Cable: UL, AWM2468 18AWG  
 Pre-mounted 3M adhesive tape and screwing hole for mechanic fastening

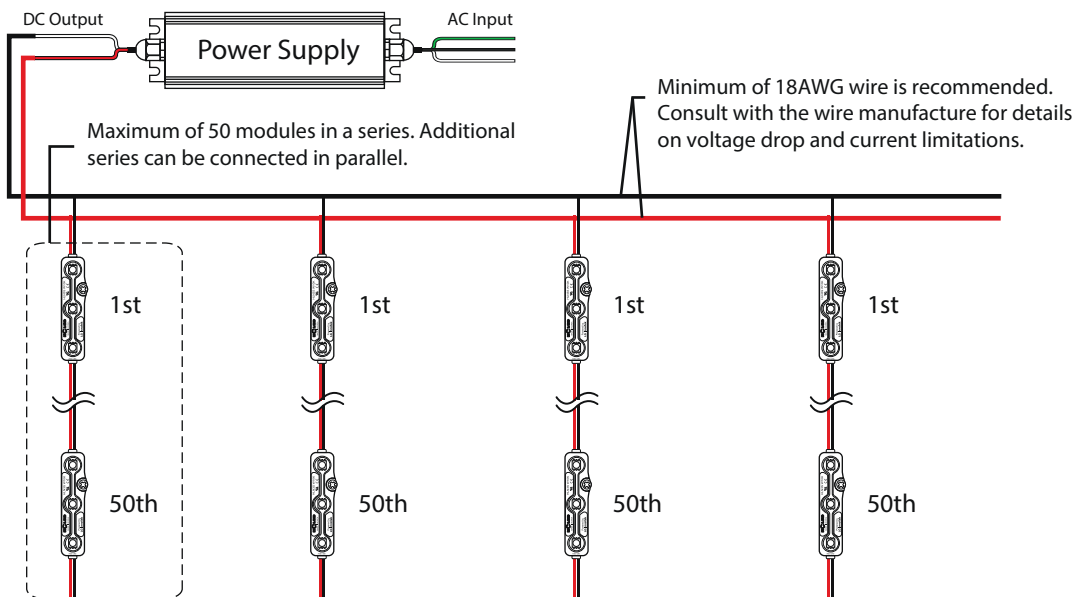
**Approval**

EN 55015/A2: 2009  
 UL879 -U.S Standard for Electric Sign Components  
 C22.2 No. 207-M89-Canadian Standard for Portable and Stationary Electric Signs & Displays  
 RoHS Directive 2011/65/EU

**Packaging**

Anti-static vinyl bag: 300 modules (75 feet)  
 Master carton box: 3000 modules (10 vinyl bags, 750 feet)

**Wiring Guide**



**Power Supply Load Table\*\***

Power Consumption	Safety Factor	Power Supply* (watt) / Qty (pcs)							
		30w	60w	75w	100w	120w	150w	200w	320w
0.36Watt <span style="color: red;">■</span>	80%	67	133	166	222	266	333	444	711
	90%	75	150	188	250	300	375	500	800
0.48Watt <span style="color: orange;">■</span> <span style="color: green;">■</span> <span style="color: blue;">■</span>	80%	50	100	125	167	200	250	333	533
	90%	56	112	141	188	225	281	375	600

\*Check power supply specification/data sheet for the temperature and line derating curve.

\*\*This table is generated with a Safety Factor (SF) of 1.2 and 1.1 (80% and 90% load).