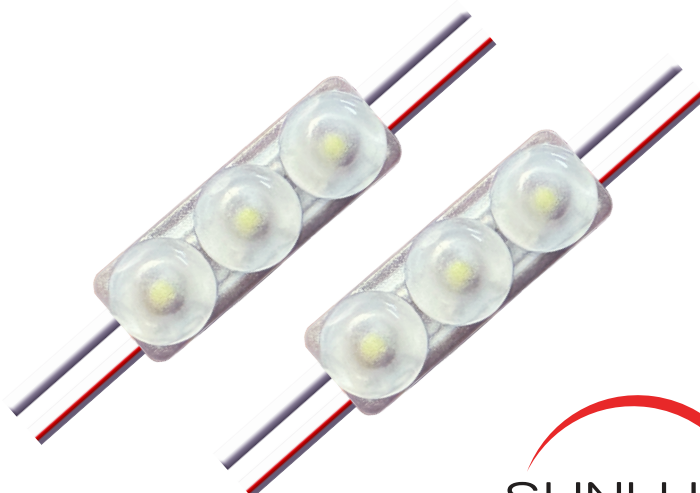
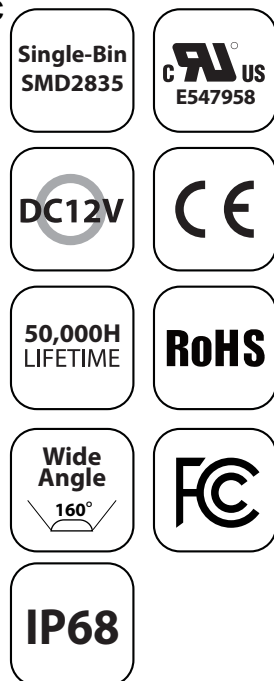
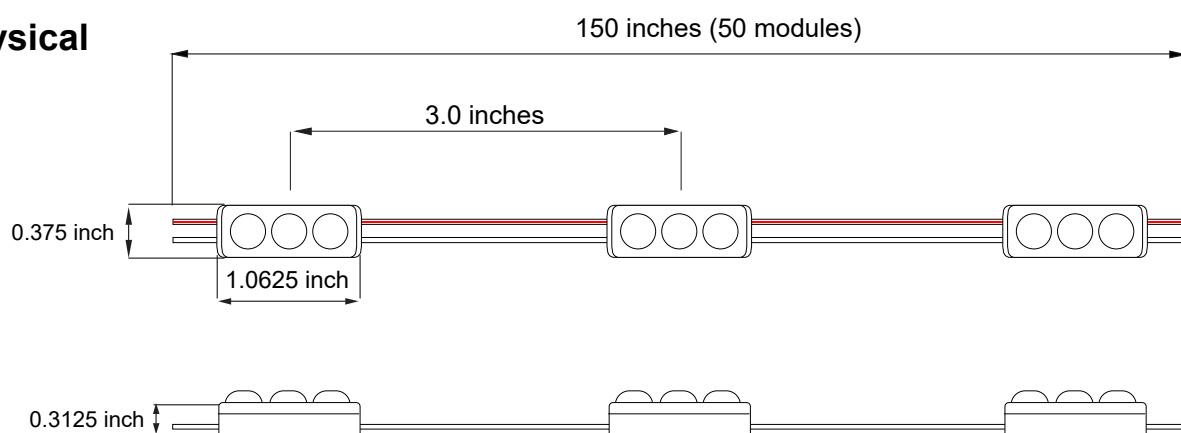


Characteristic



- 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 160° optical lens for wide and evenly distributed light

Physical



Optical Characteristic

Color	Current Dissipation (mA)	Power Consumption (Watt)	Viewing Angle
Red, Blue, Amber, Green	40	0.48	160 (2Θ½)

Electrical Characteristics

Current dissipation: 40mA
 Power consumption: 0.48W
 Operating power: DC 12V
 Maximum quantity for serial connection: 50 modules
****Connecting more than 50 modules in series will result in unstable brightness**
 Supports 12V dimming

Thermal

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

Waterproof Rating

IP68: Complete protection against dust and moisture. Immersion up to 1 meter under - defined condition of pressure and time.

Construction

LED type: SMD 2835
 Body, Lens, PCB: ABS, PC and FR-4
 Cable: UL, AWM2468 22AWG
 Pre-mounted 3M adhesive tape and screwing hole for mechanic fastening

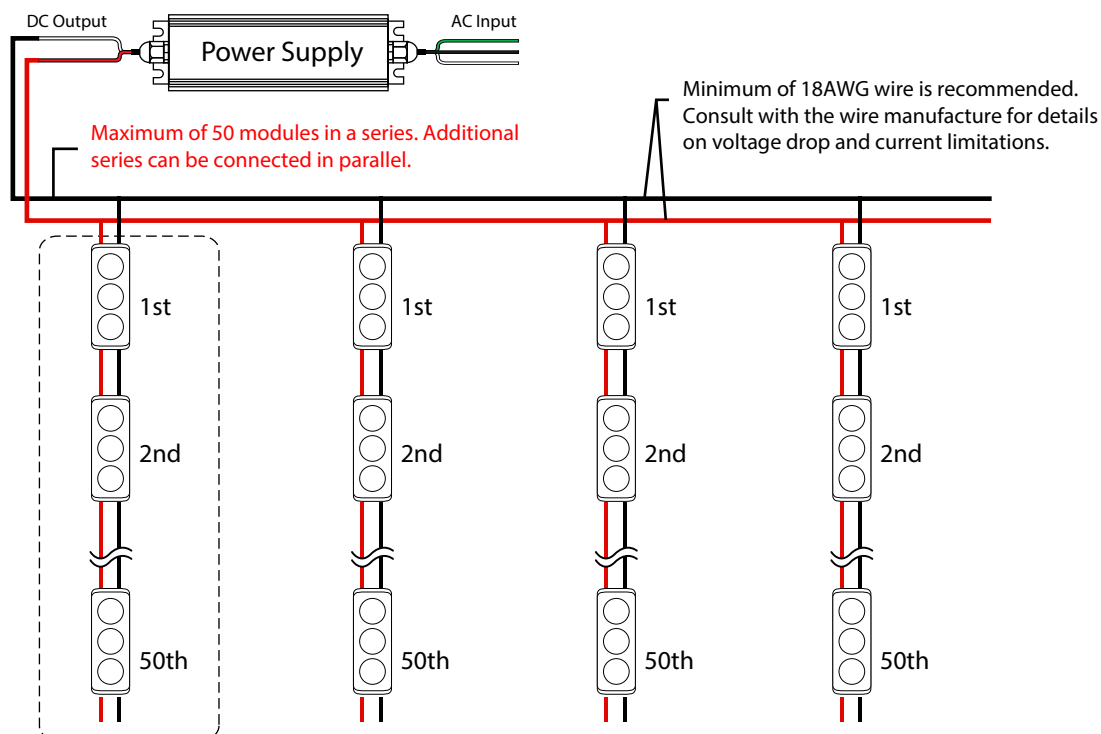
Approval

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: 100 modules (25 feet)
 Master carton box: 5000 modules (1250 feet)

Wiring Guide



Power Supply Load Table**

Power Consumption	Safety Factor	Power Supply* (watt) / Qty (pcs)				
		60w	120w	150w	200w	320w
0.48Watt	80%	100	200	250	333	440
	90%	113	225	281	375	495

*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).