

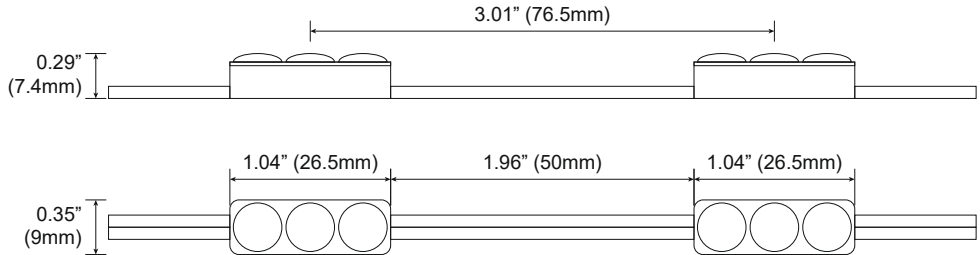
Characteristic

Single-Bin SMD2835	IP68
DC12V	UL US E517435
High Efficacy 0.48watt	CE
50,000H LIFETIME	RoHS
Wide Angle 150°	3M



- 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

Color	Current Dissipation (mA)	Power Consumption (Watt)	Luminous Flux (lm)	Luminous Efficiency (lm/W)	CCT (Kelvin)	Viewing Angle
Cool White	40	0.48	48	100	10,000K	150 (2Θ½)

**Electrical Characteristics**

Current dissipation: 40 mA  
 Power consumption: 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  
 Storage 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

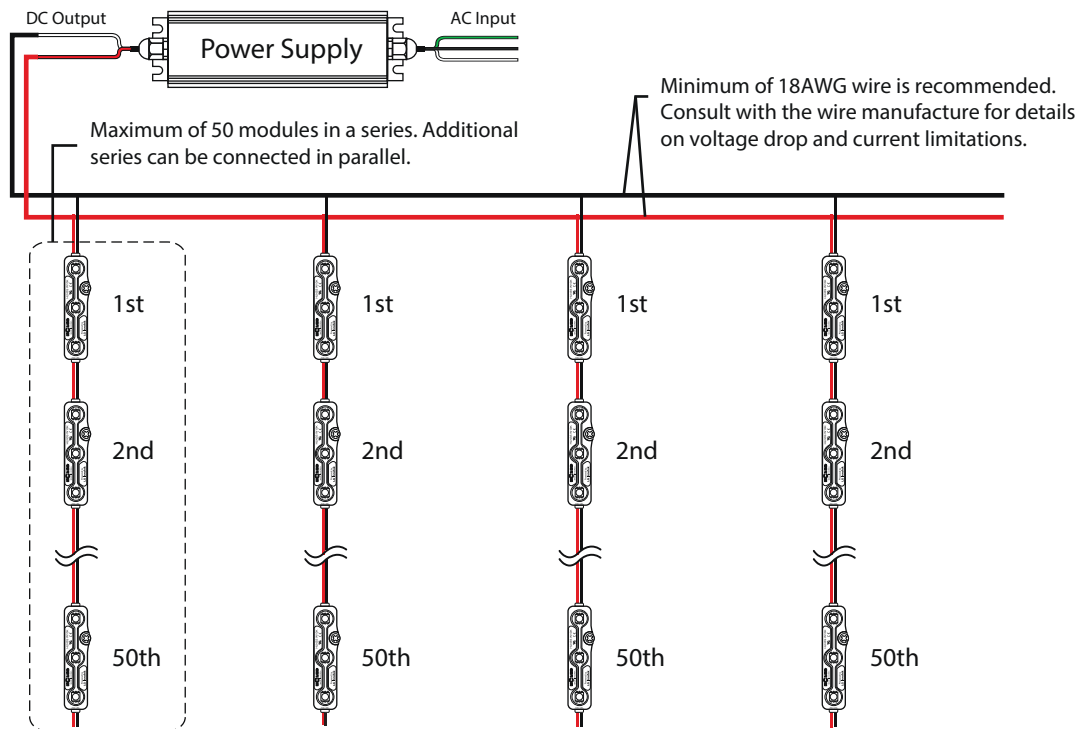
**Approval**

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
0.48Watt	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).